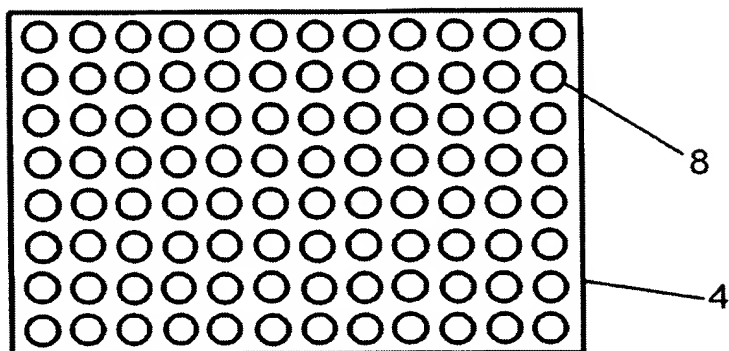




Figure 1

A



B

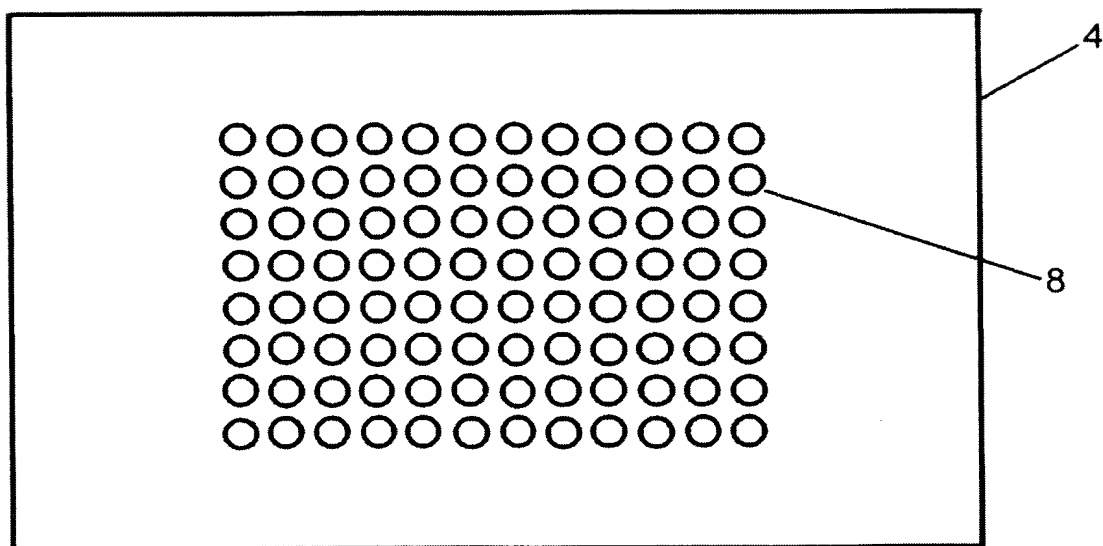


Figure 2

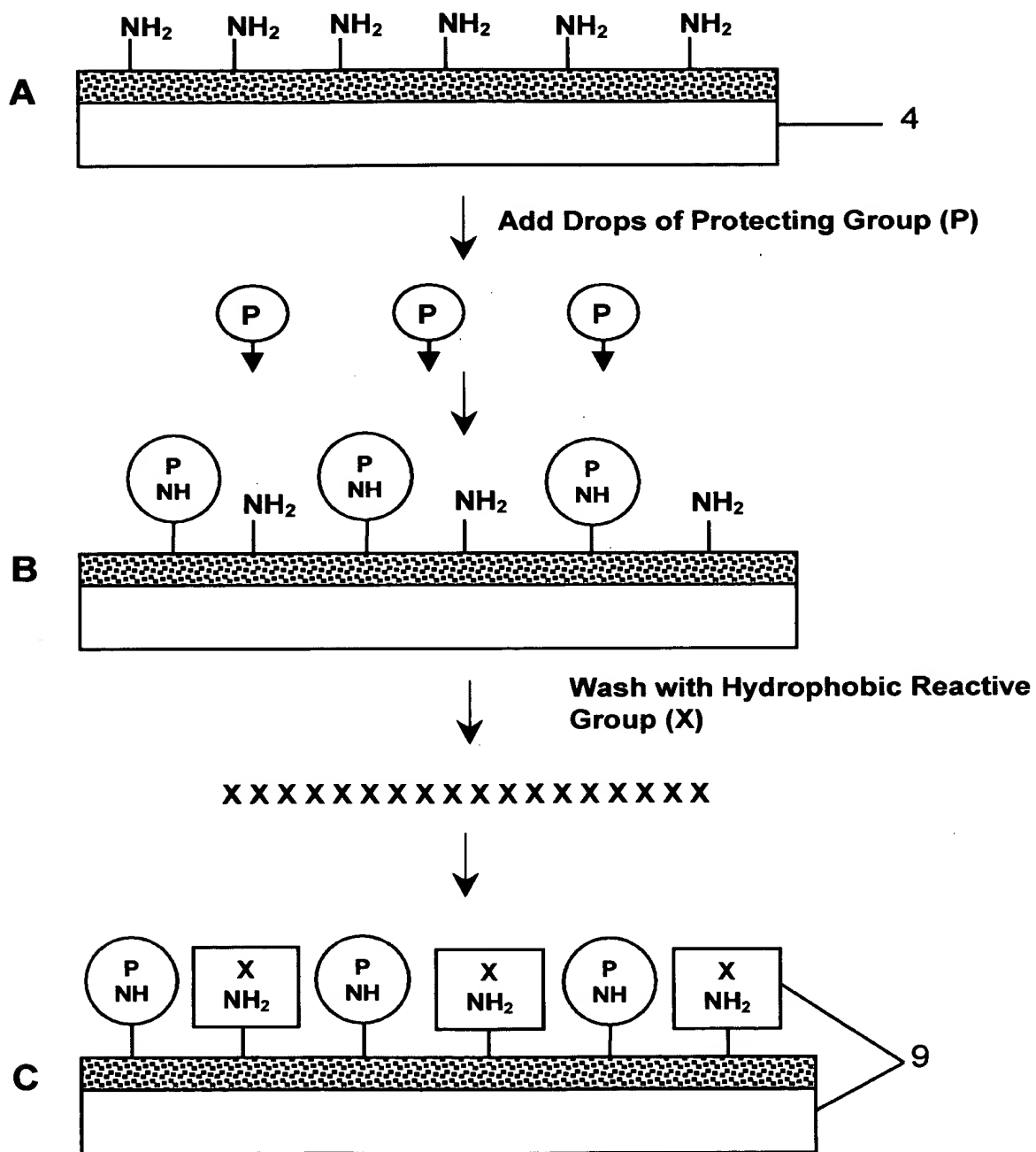
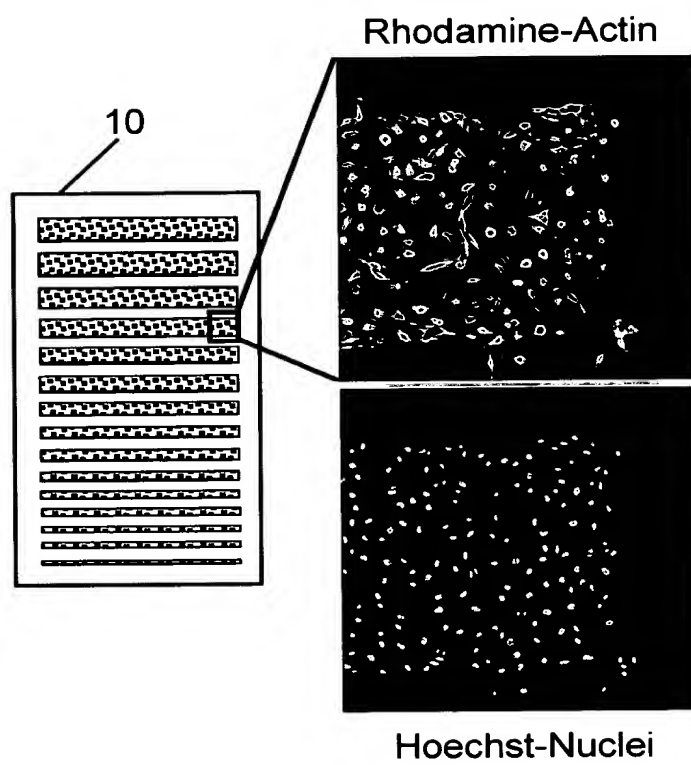
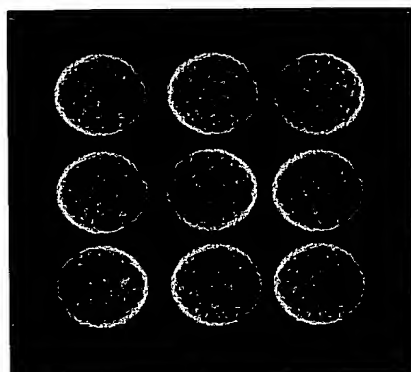


Figure 3A

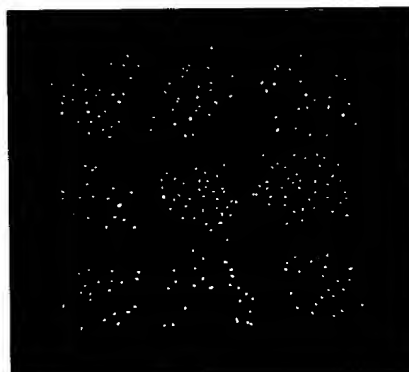


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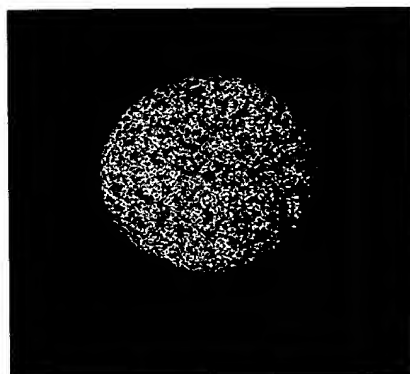
Figure 3B



Sodium Fluorescein binding to Cell Chip to identify the location of 200 μm spot patterns.



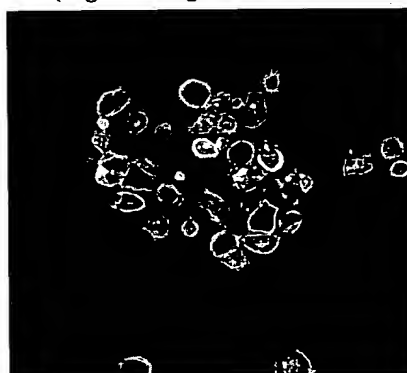
Fluorescent cell attachment of L929 cells to patterned spots (low magnification, 4x)



Sodium Fluorescein binding to Cell chip to identify the location of 400 μm spots patterns.



Fluorescent cell attachment of 3T3 cells to patterned spots. Nuclei (above), Actin in same cells (below) (higher magnification, 20x)



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Figure 4

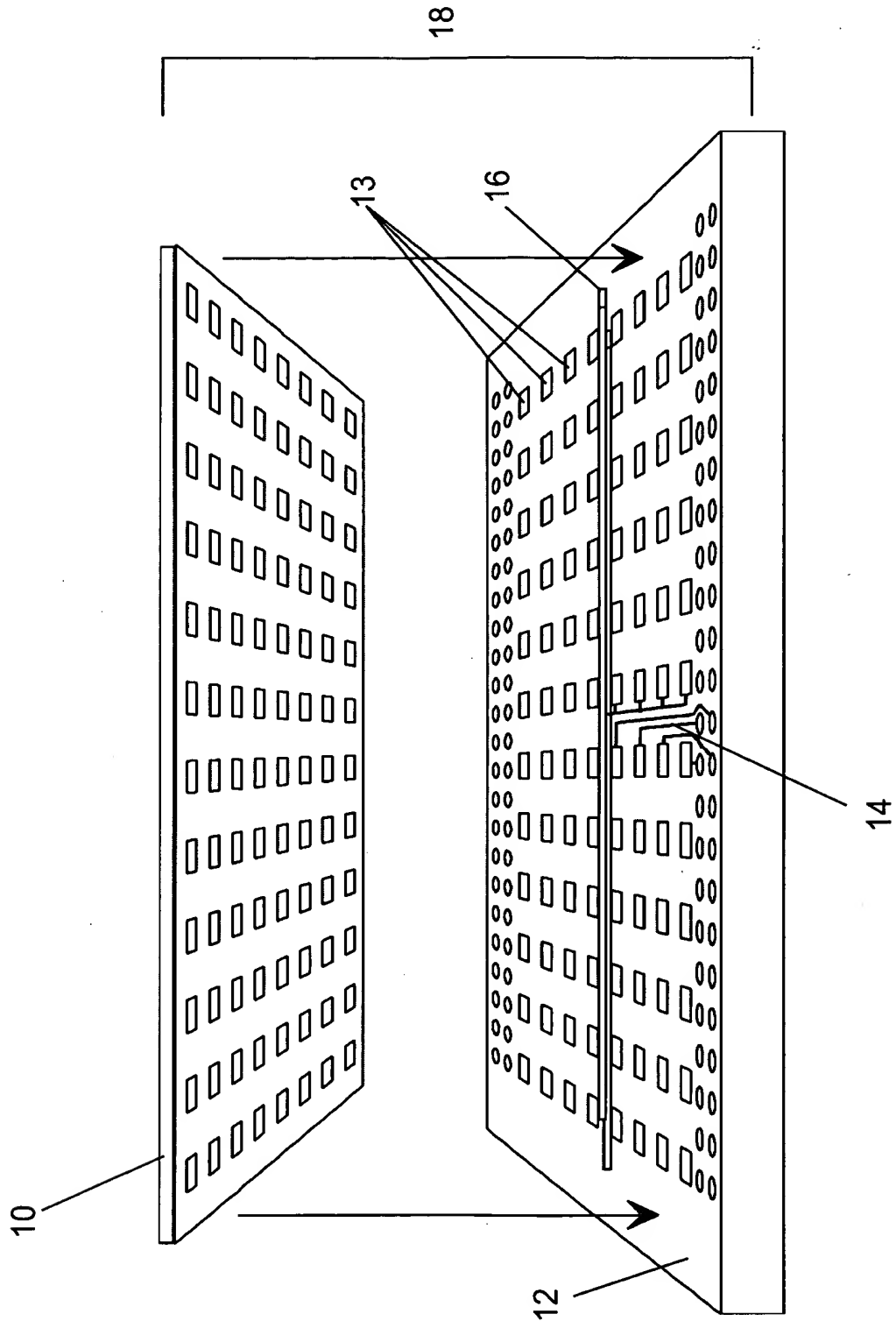


Figure 5

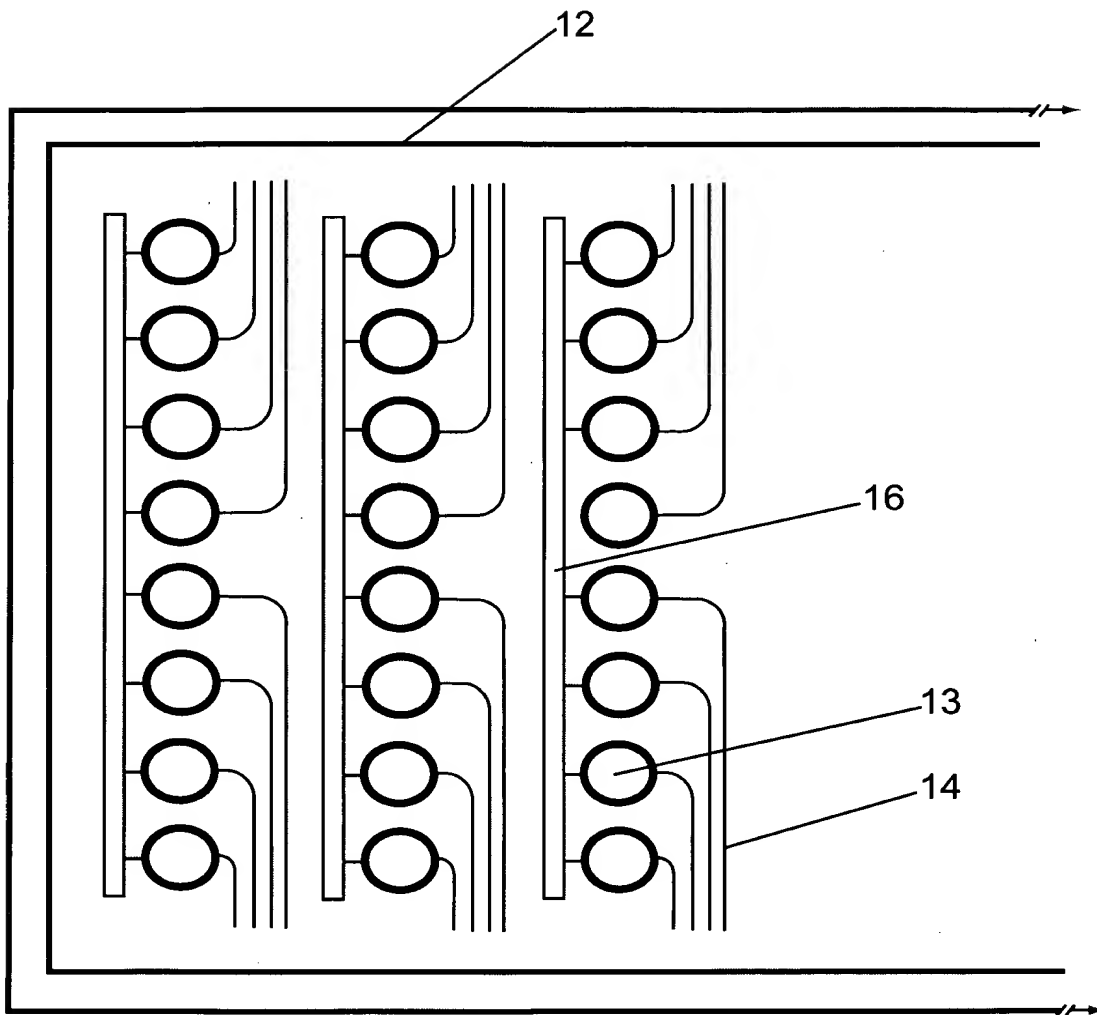


Figure 6

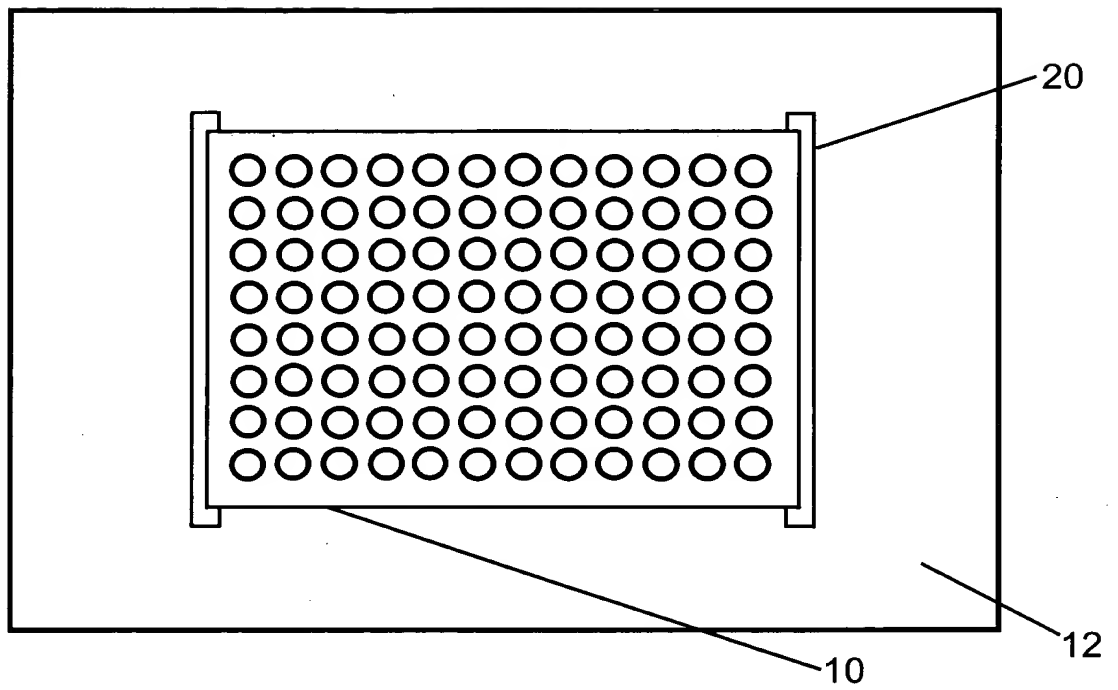


Figure 7

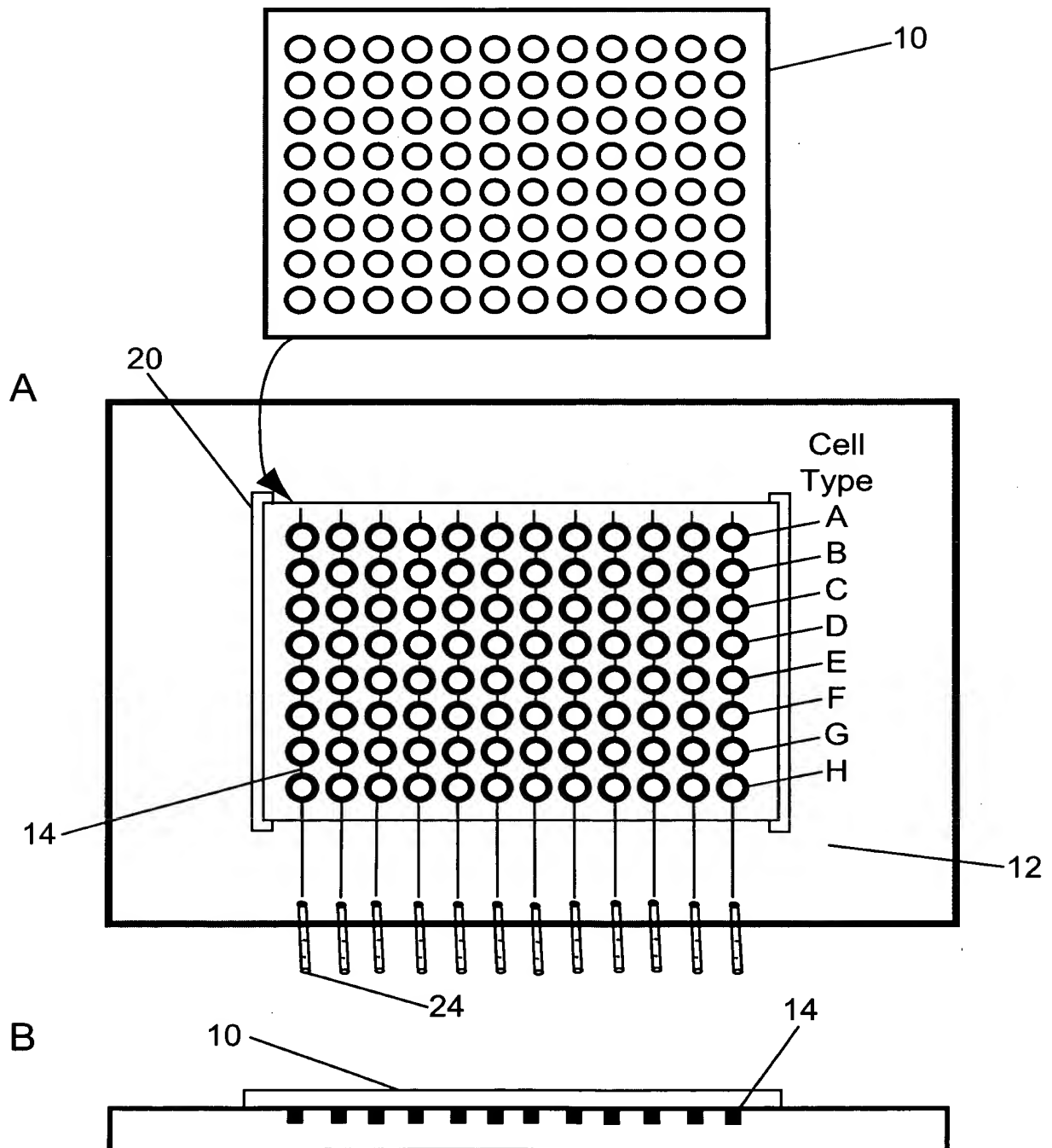


Figure 8

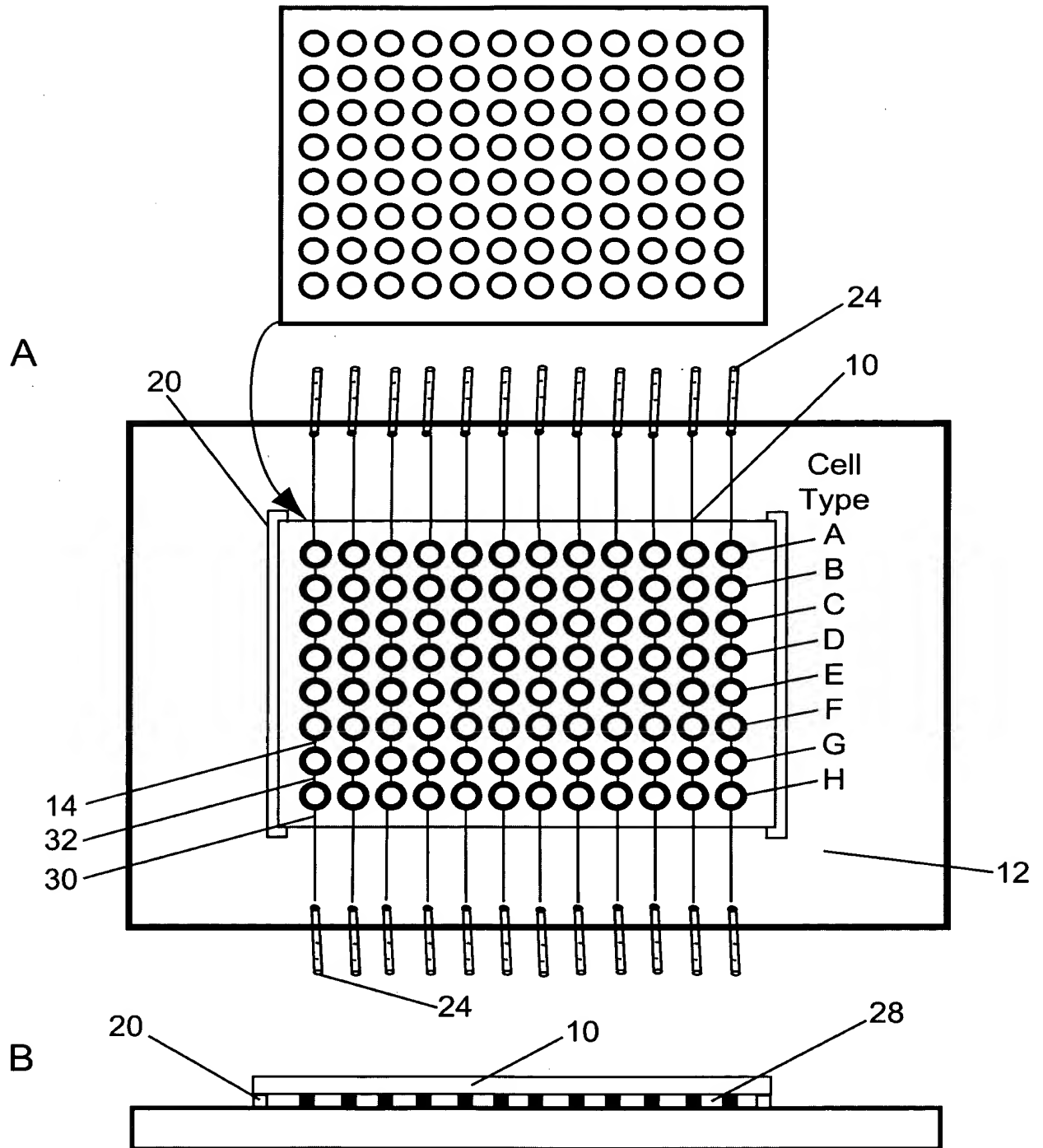


Figure 9

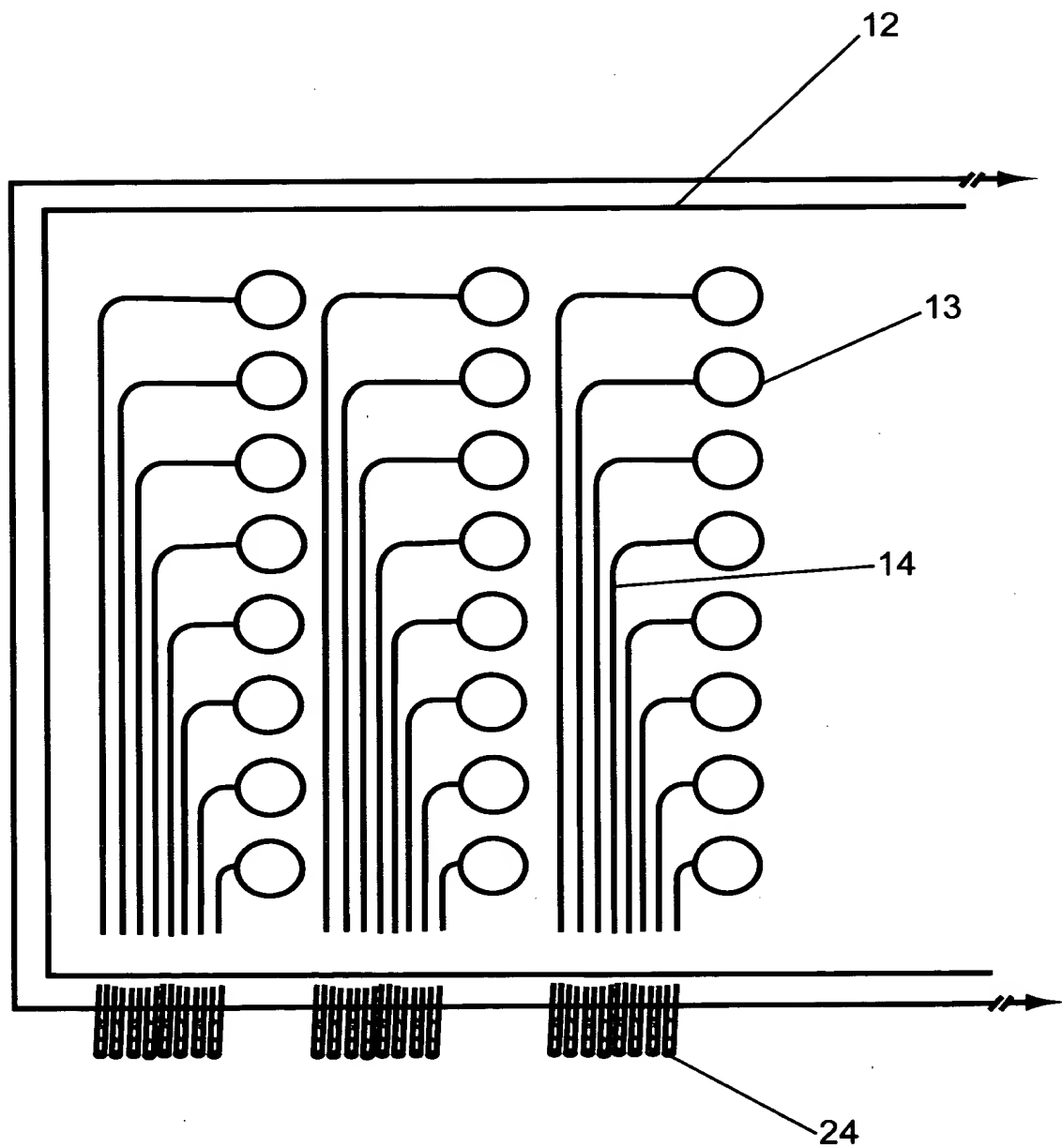


Figure 10

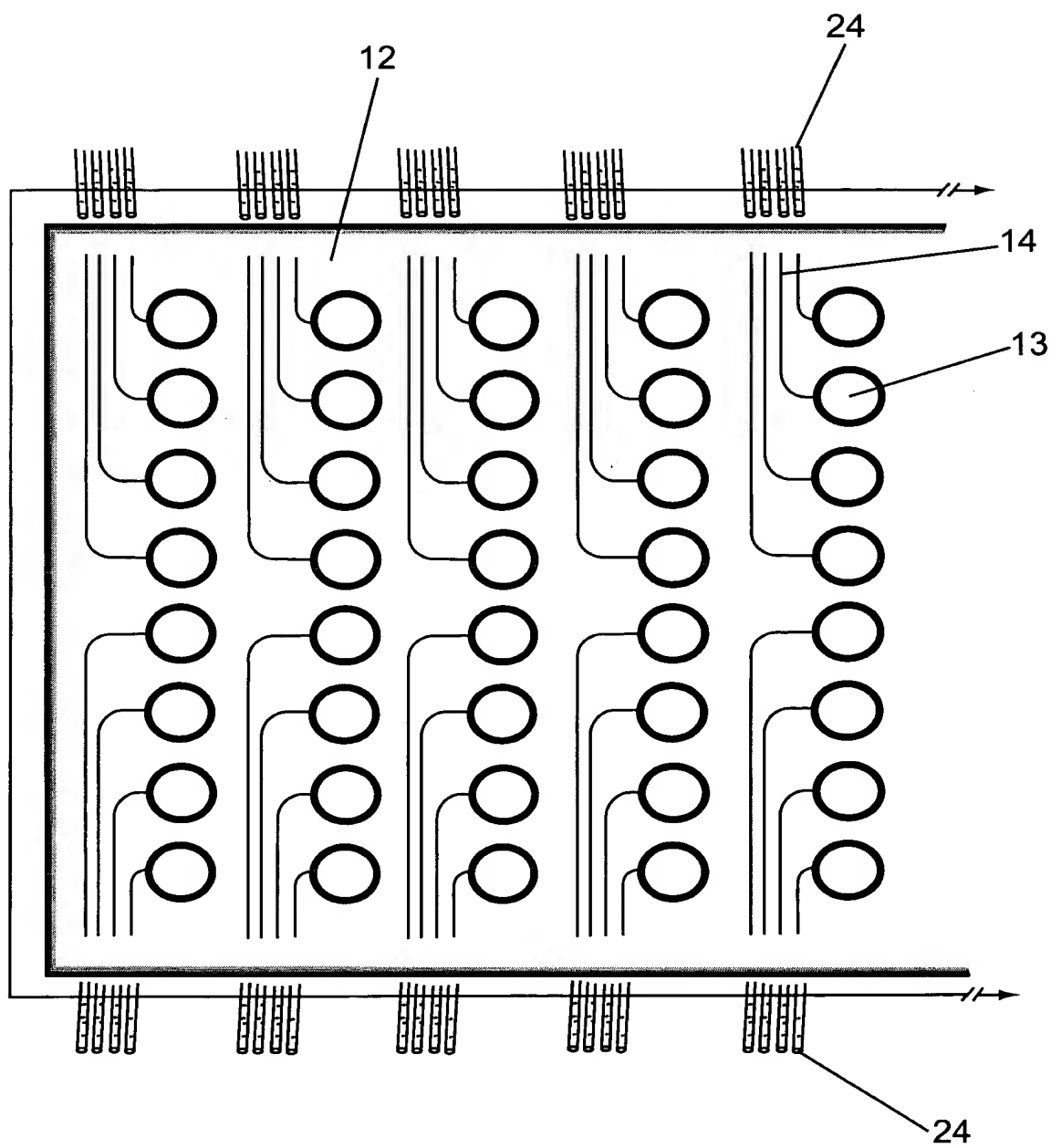


Figure 11

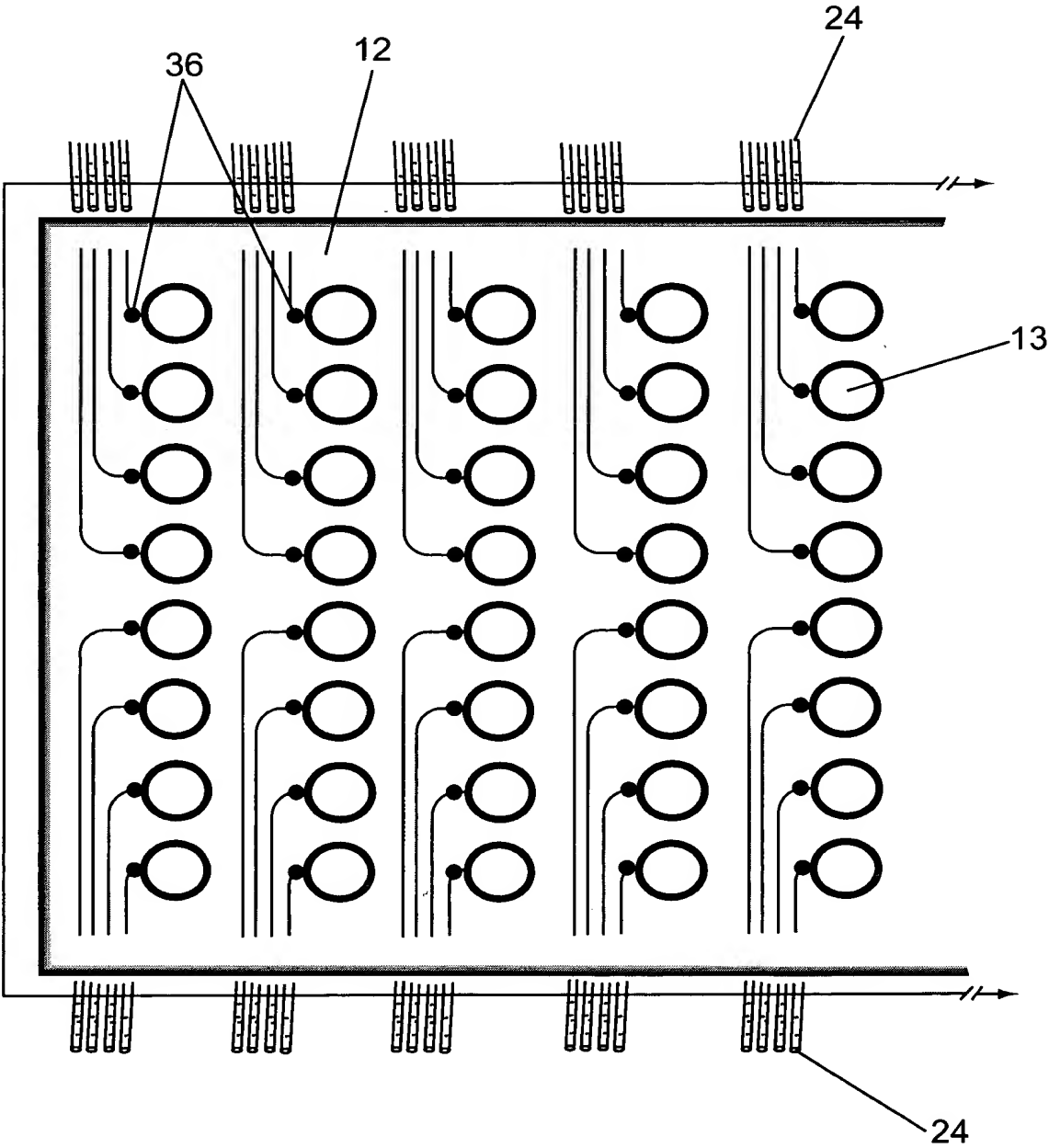


Figure 12

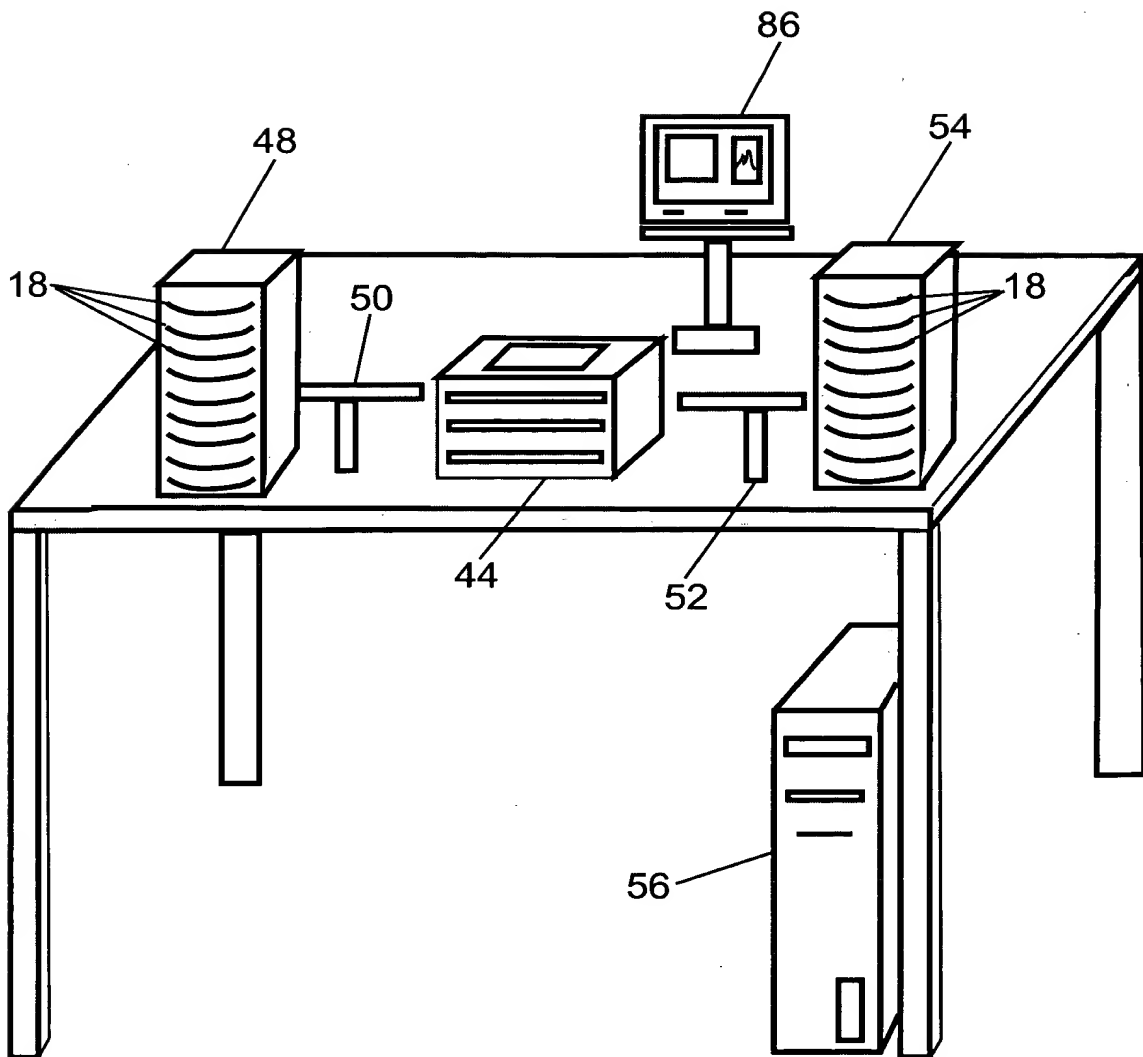


Figure 13

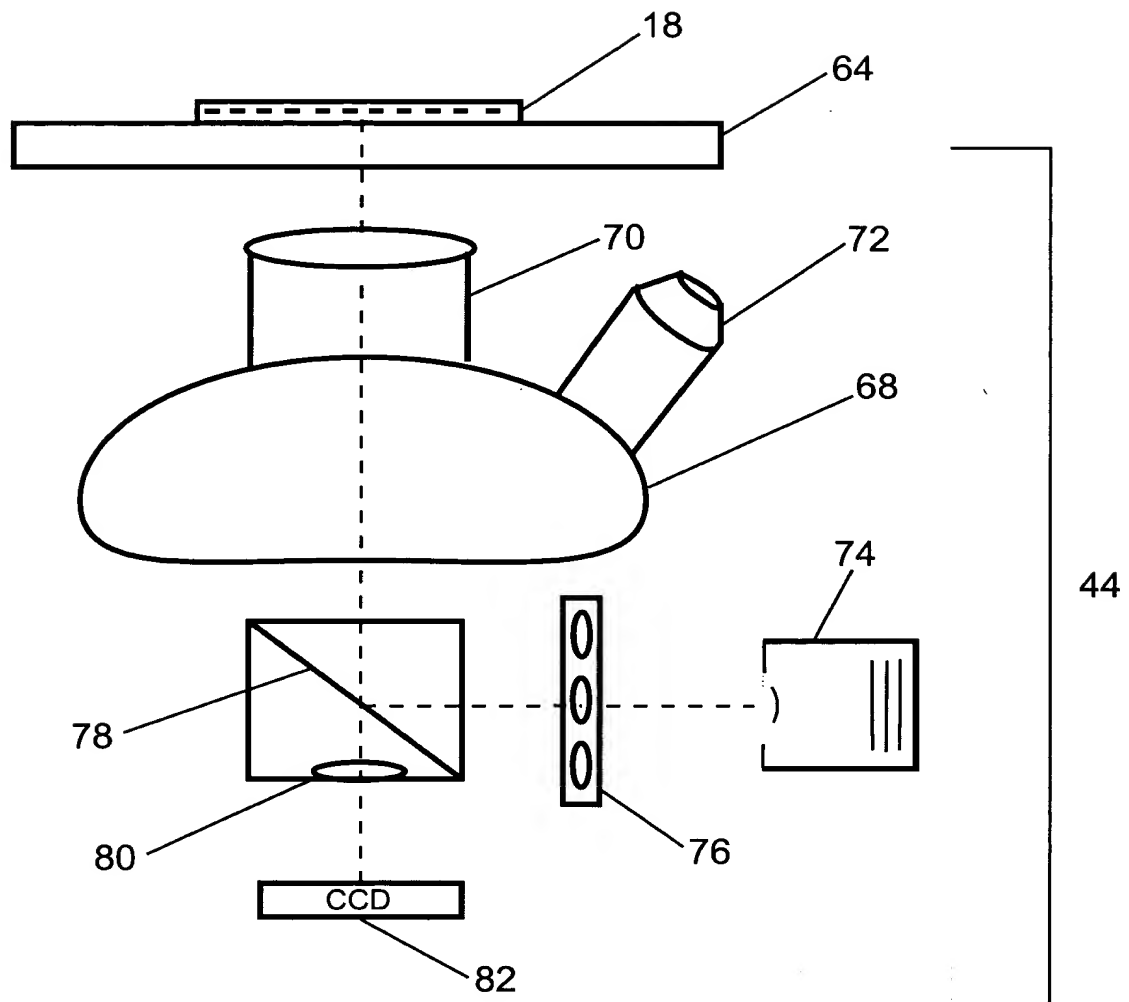


Figure 14A

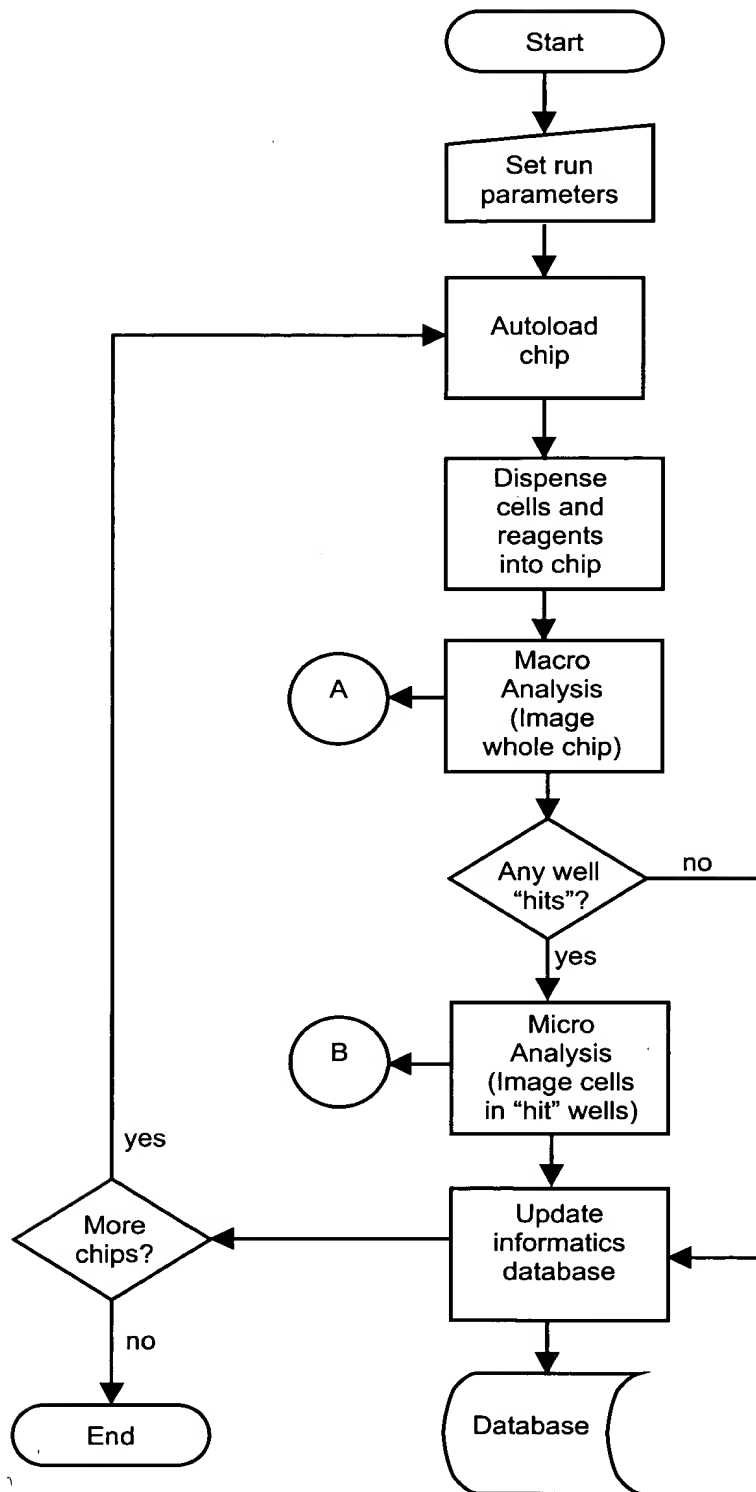


Figure 14B

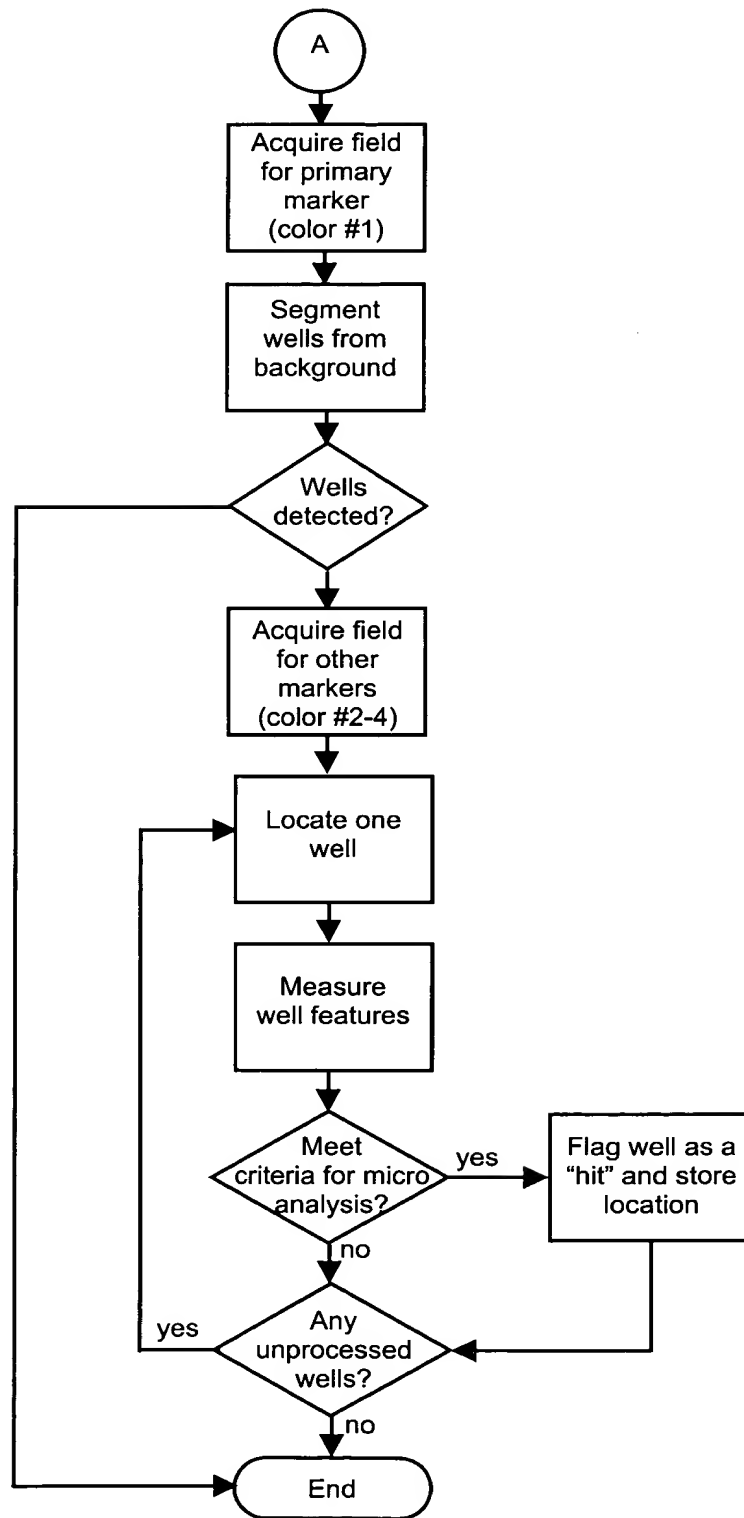


Figure 14C

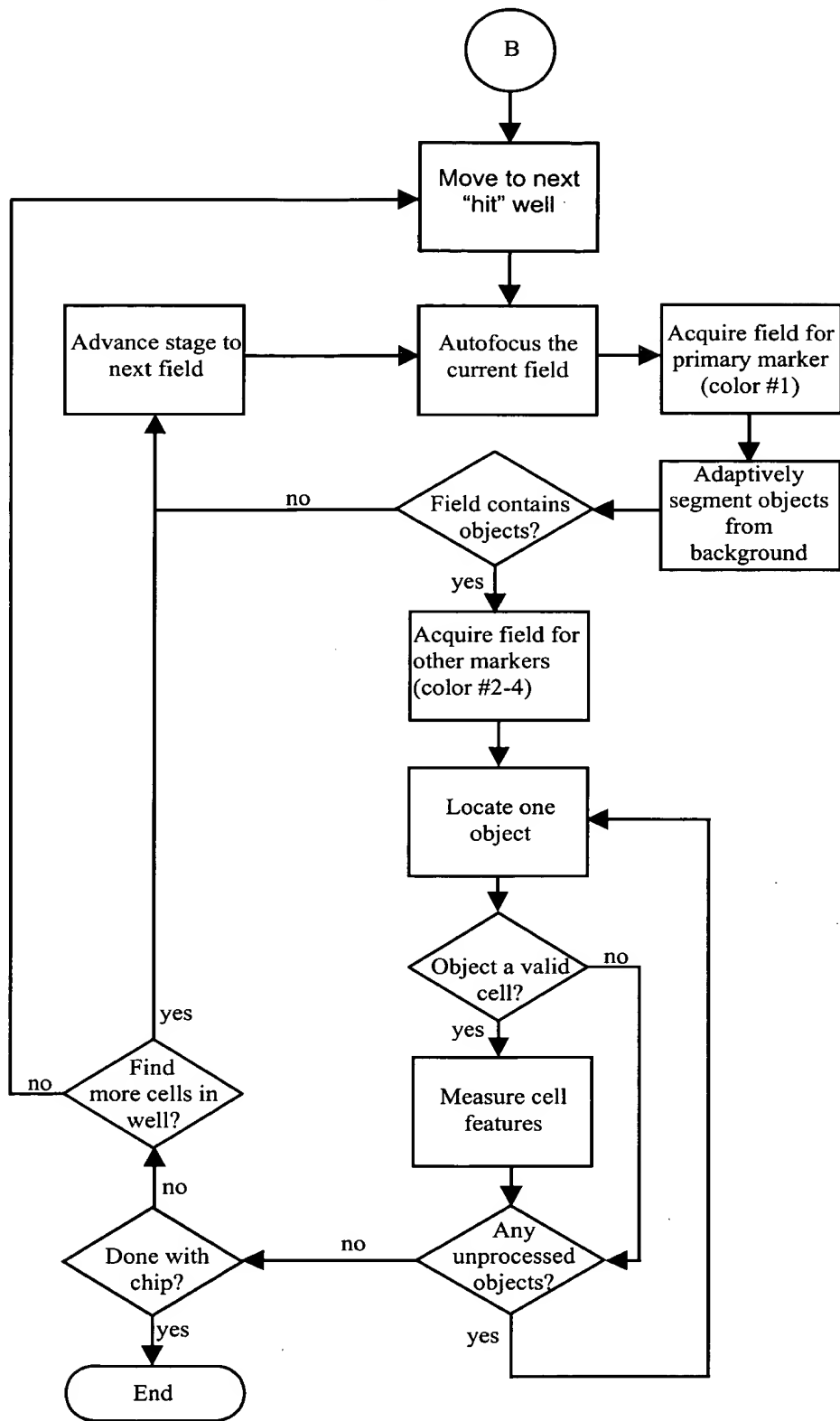


Figure 15

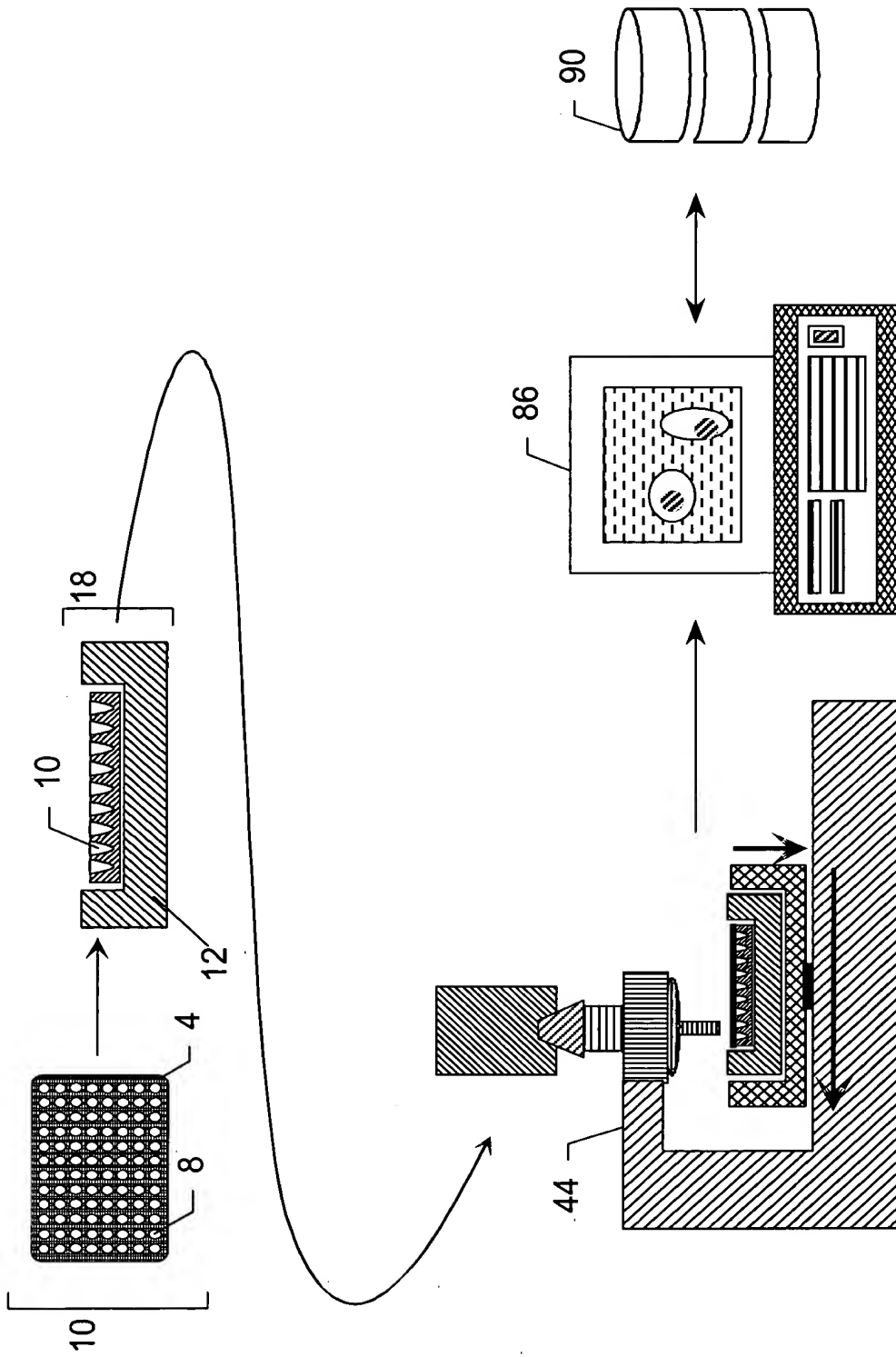
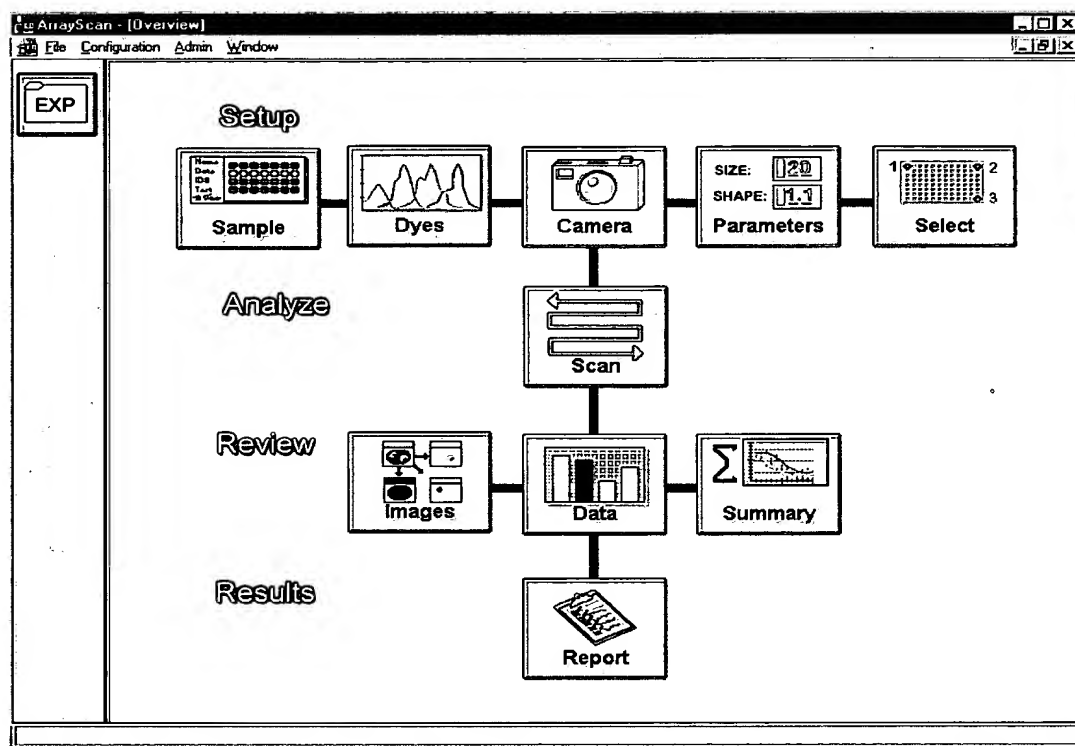


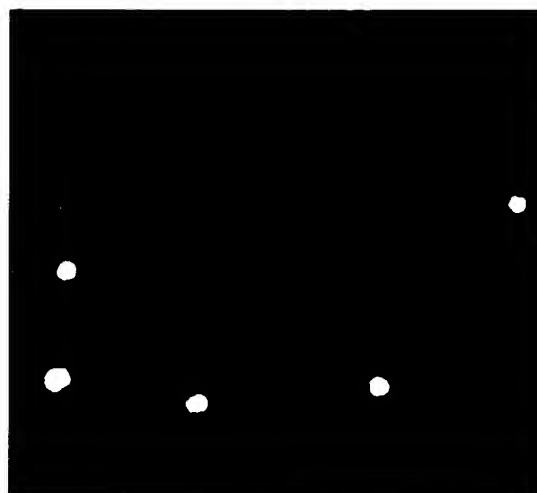
Figure 16



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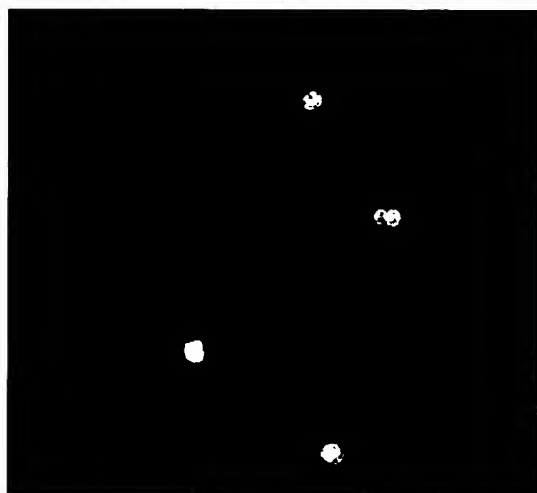
Figure 17

A



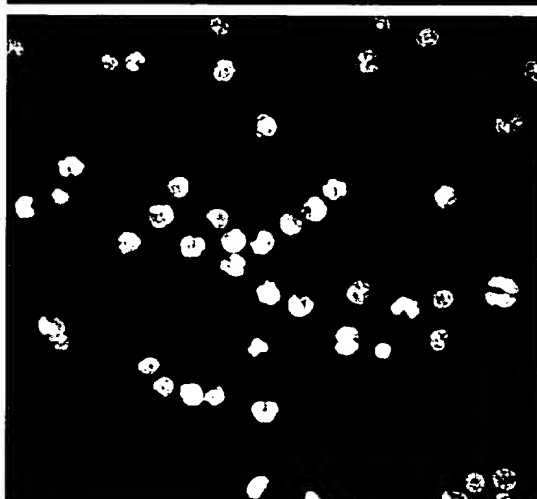
**Control
No Coating**

B



**IgM
Coated**

C

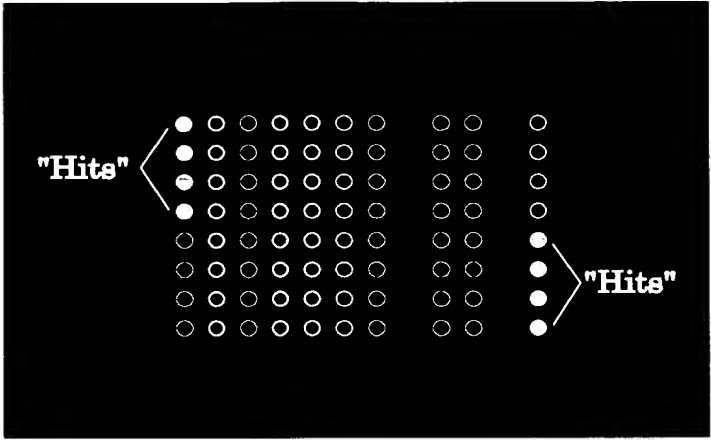


**Whole Serum
Coated**

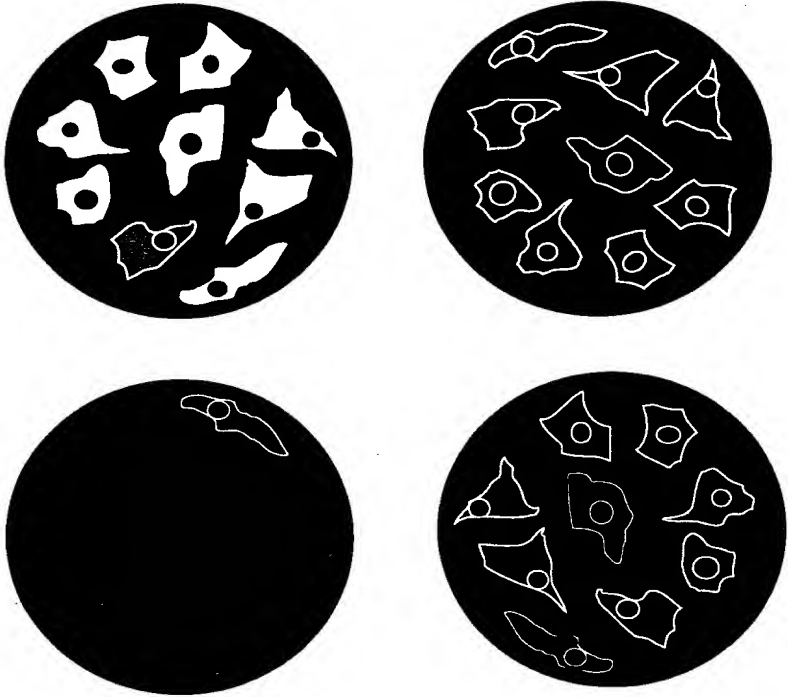
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Figure 18

A

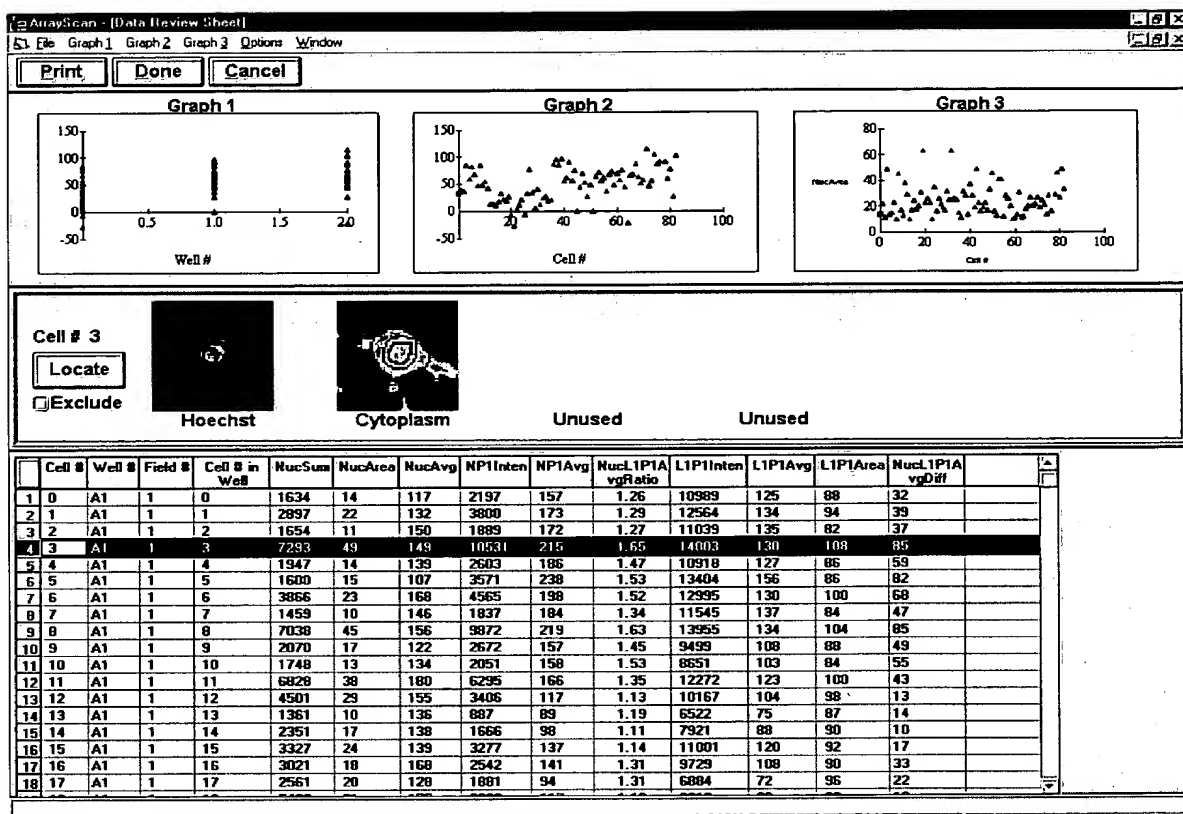


B



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Figure 19



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Figure 20

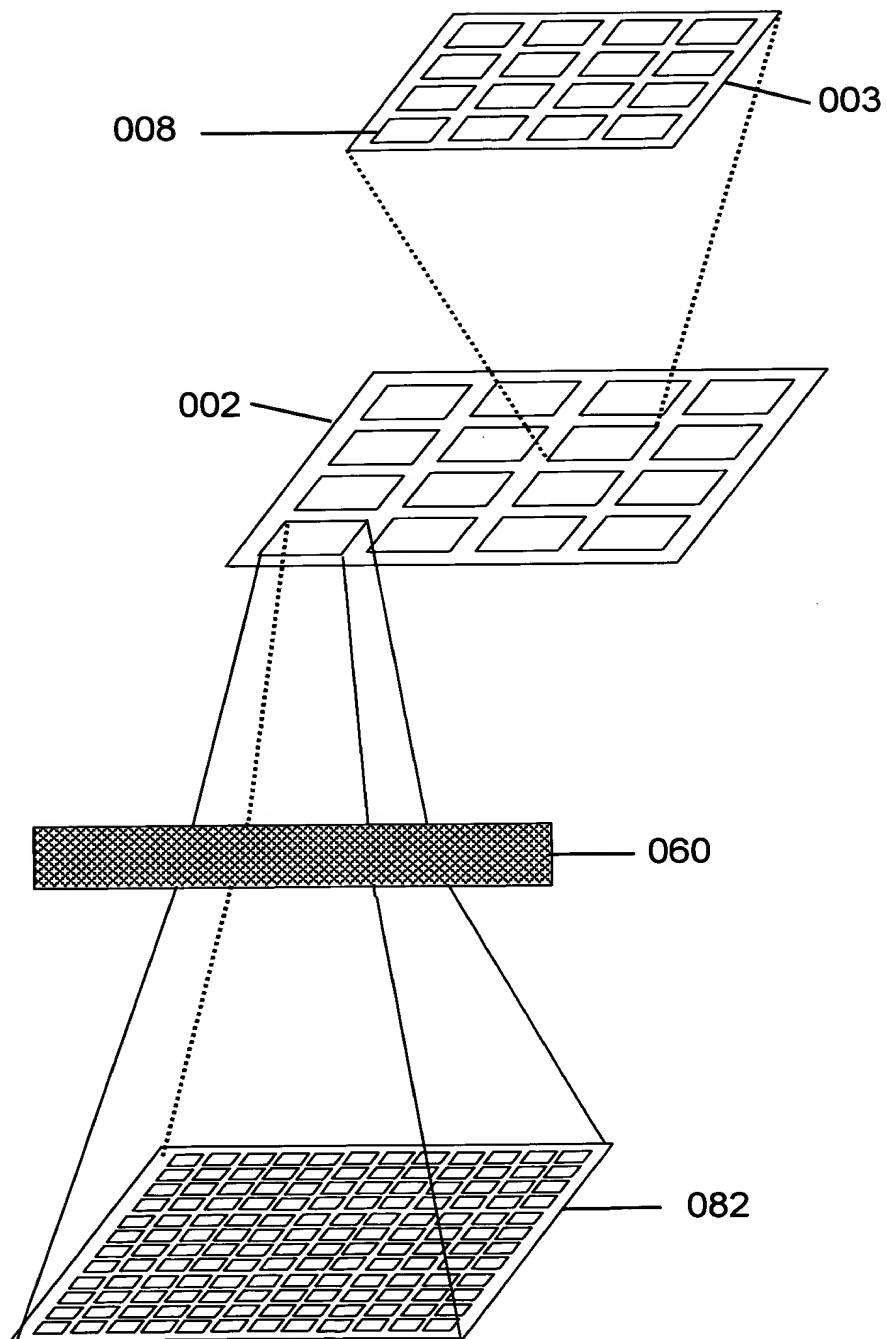


Figure 21

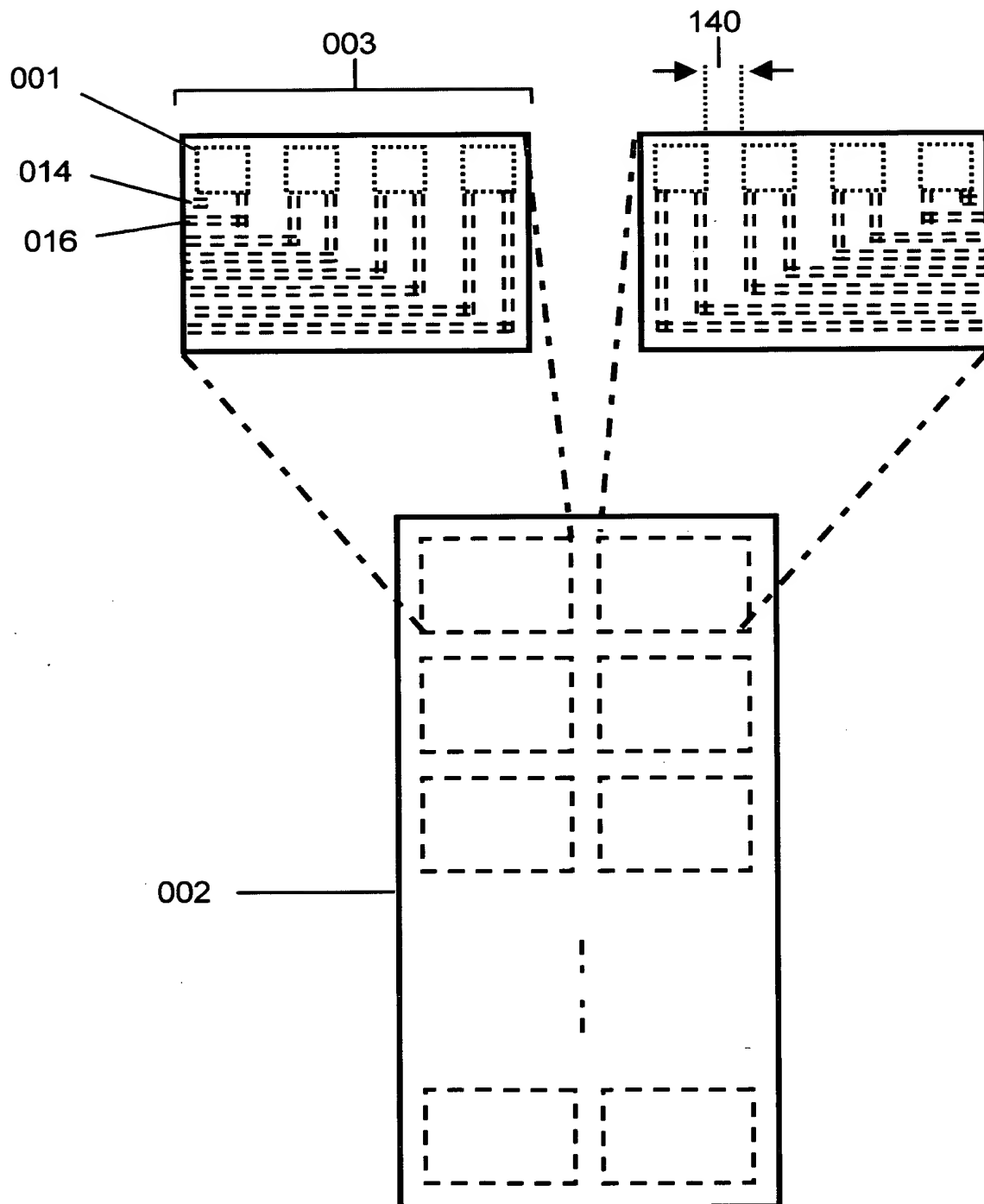


Figure 22

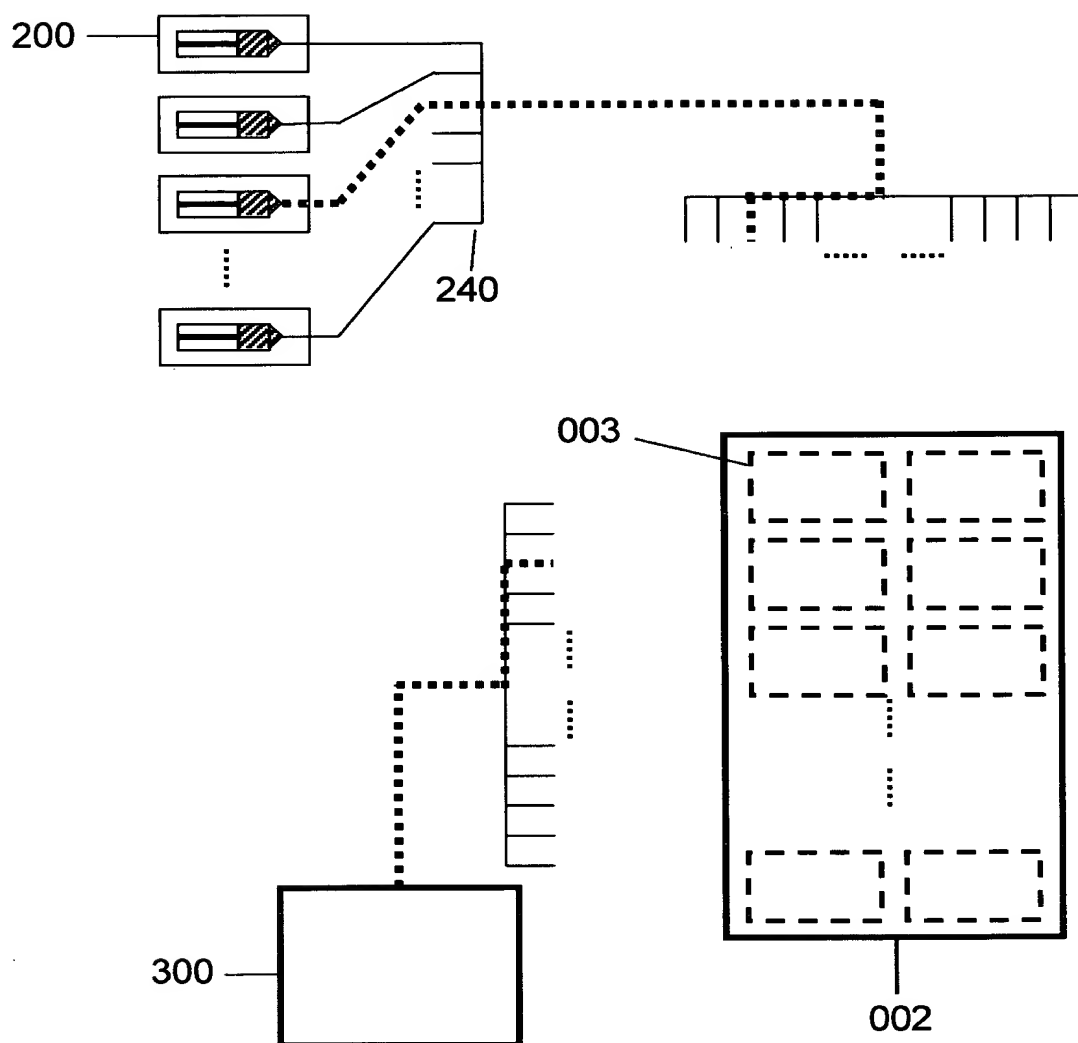


Figure 23

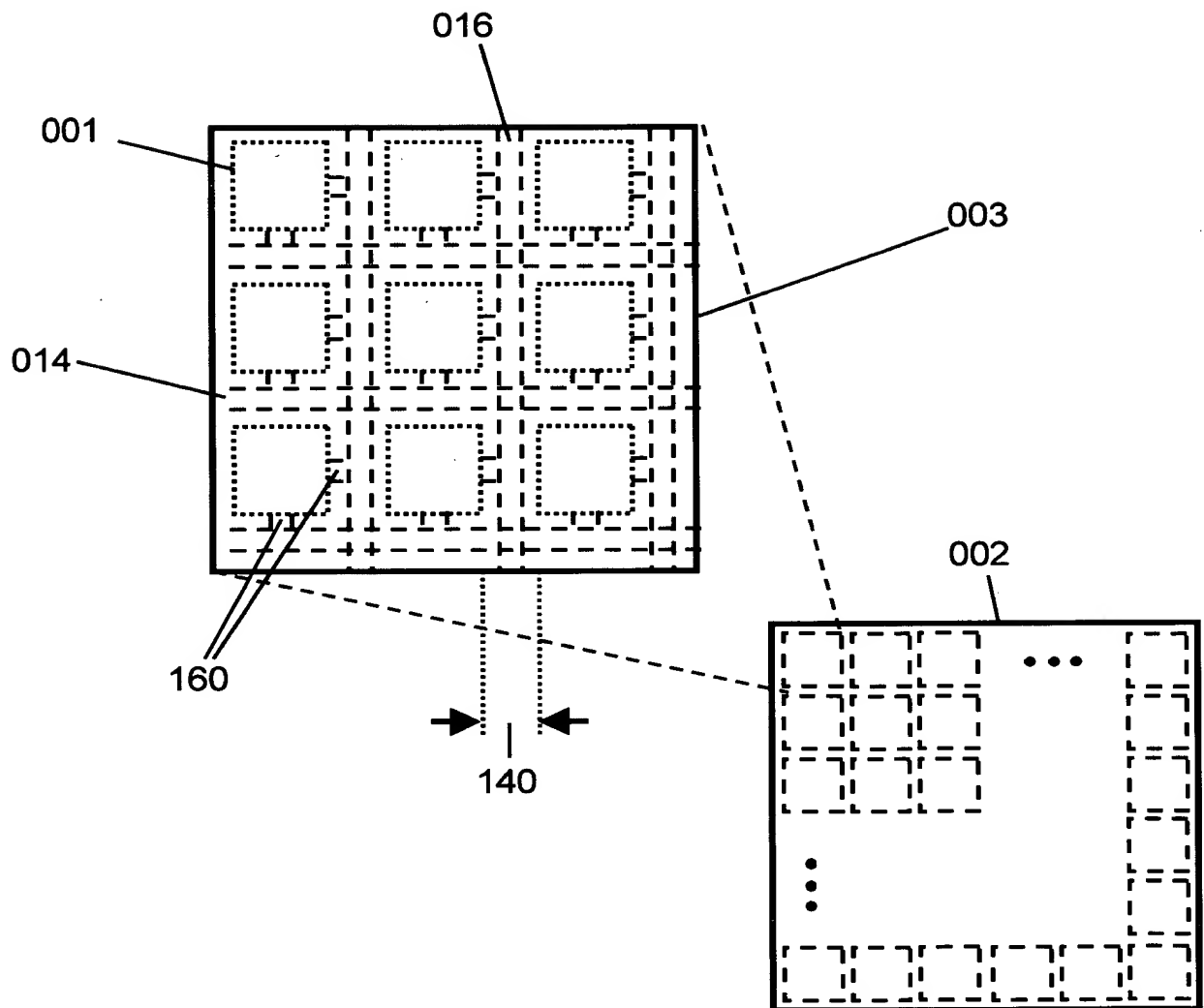


Figure 24

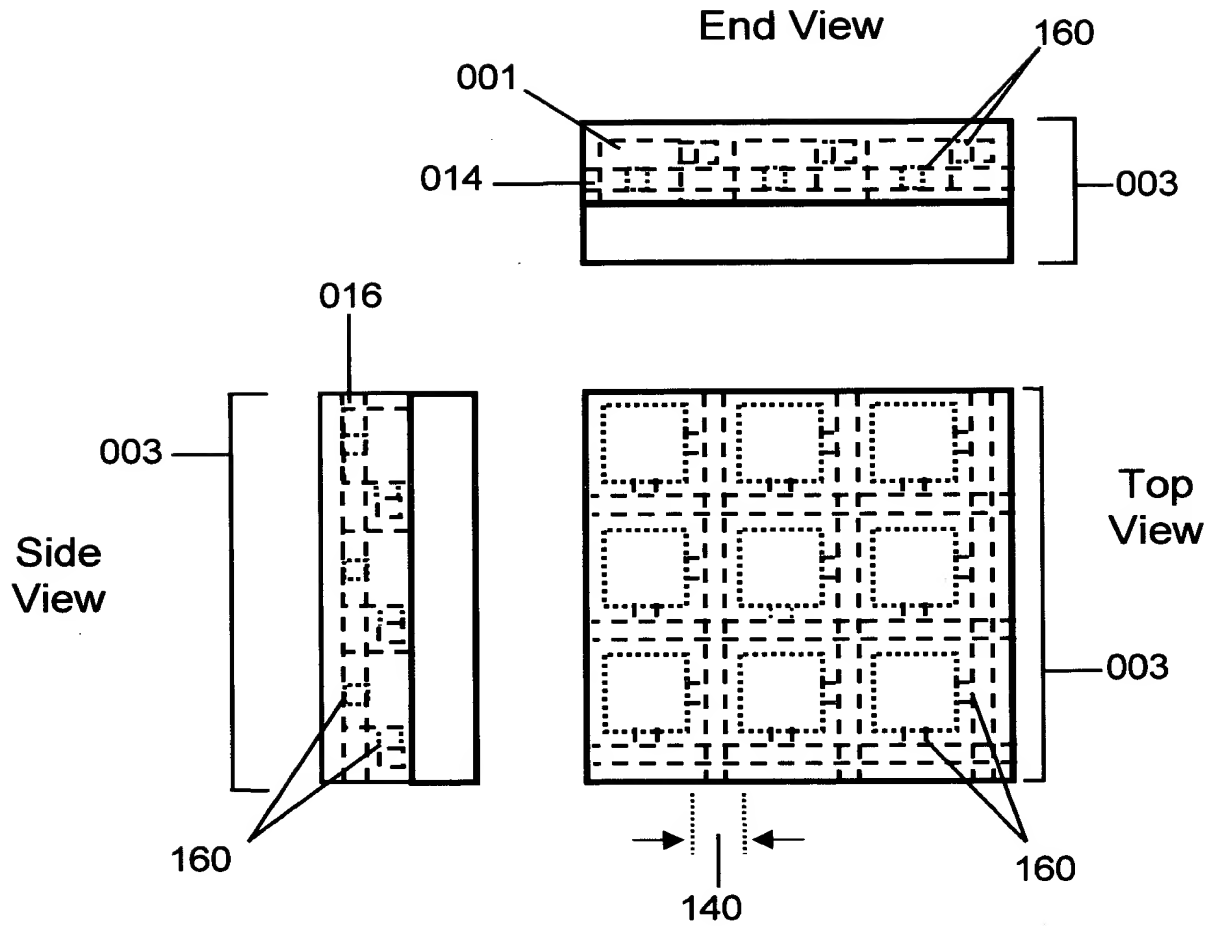


Figure 25

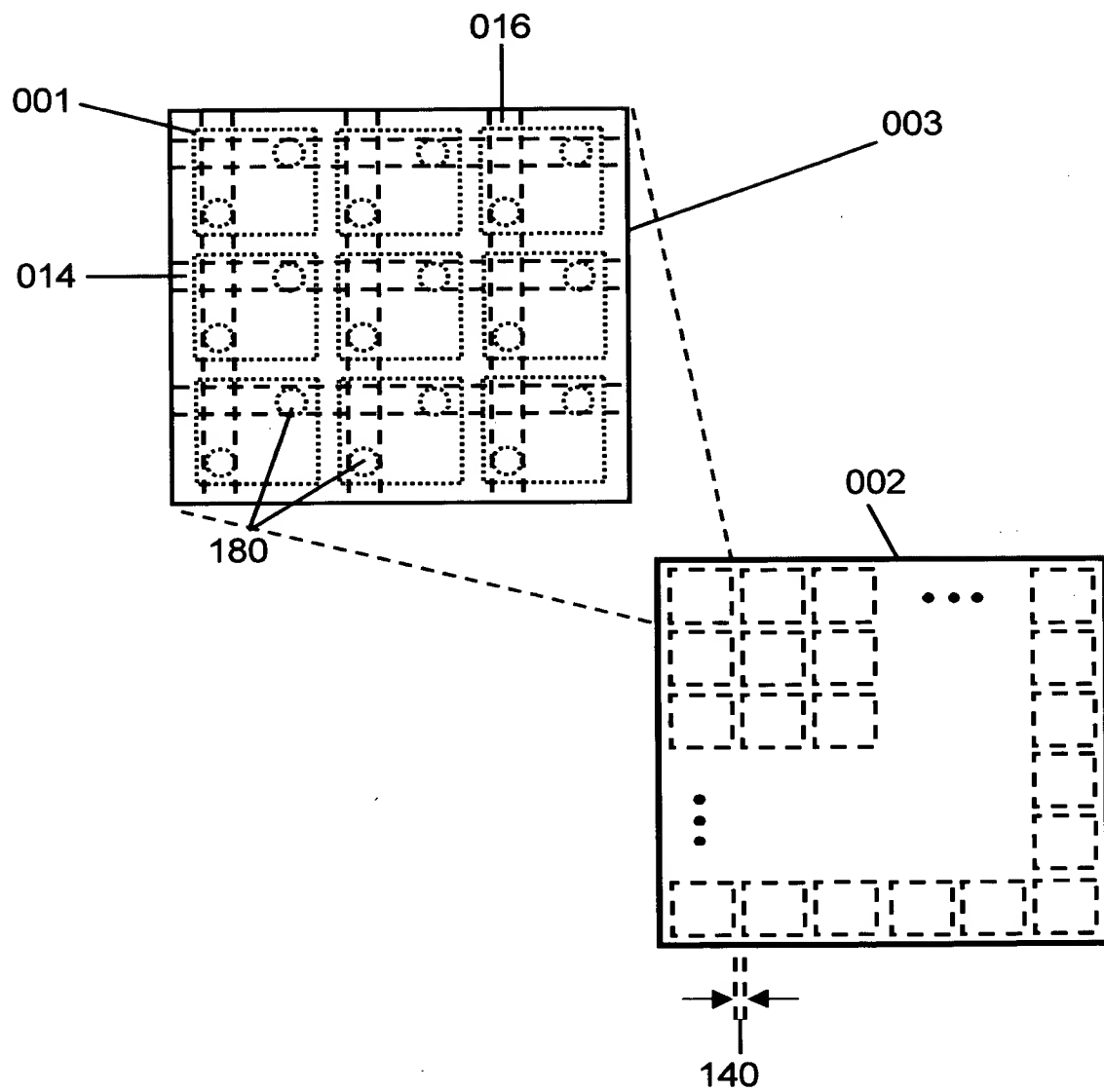


Figure 26

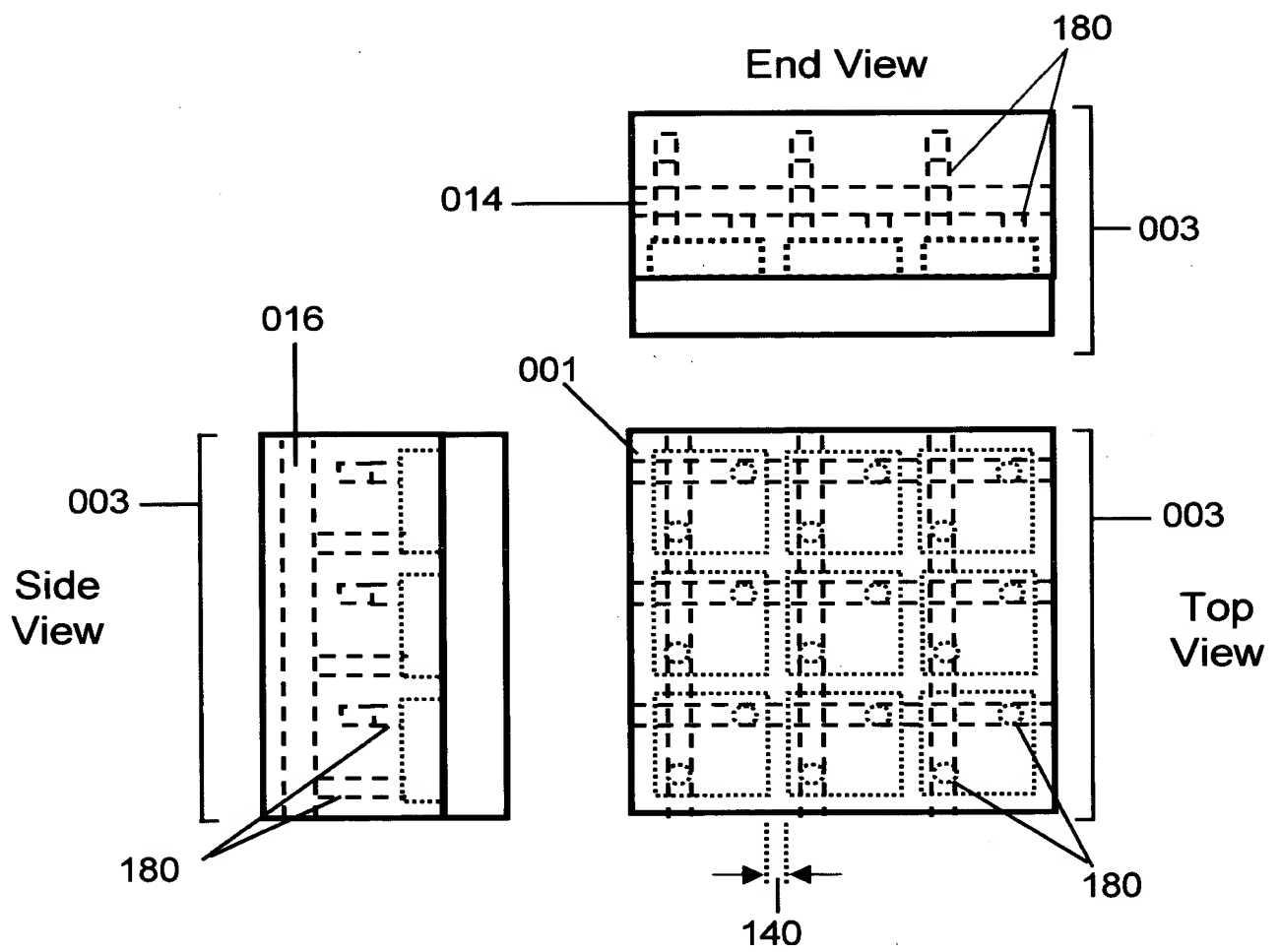


Figure 27

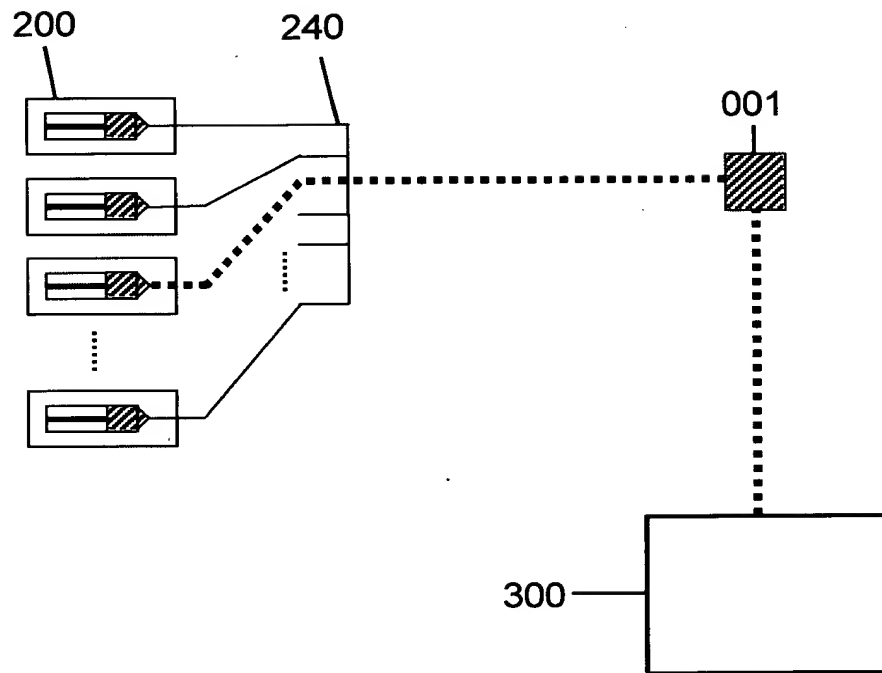
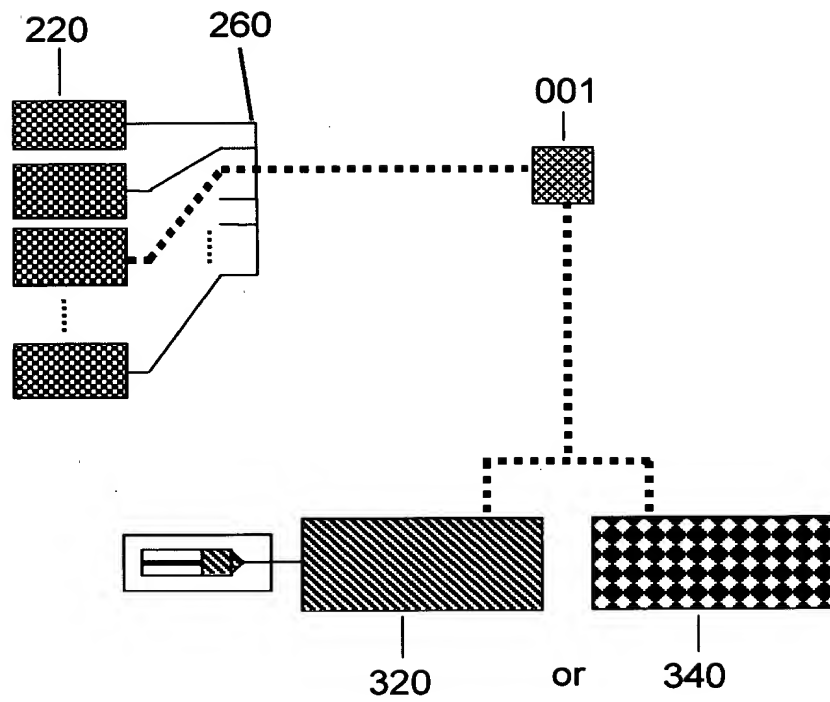


Figure 28



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Figure 29

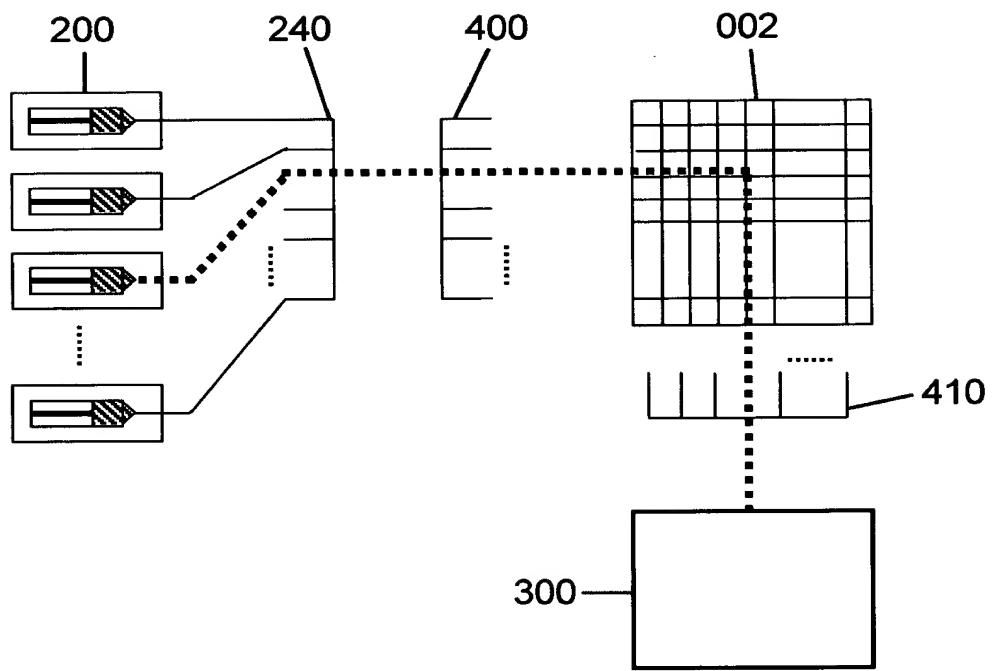
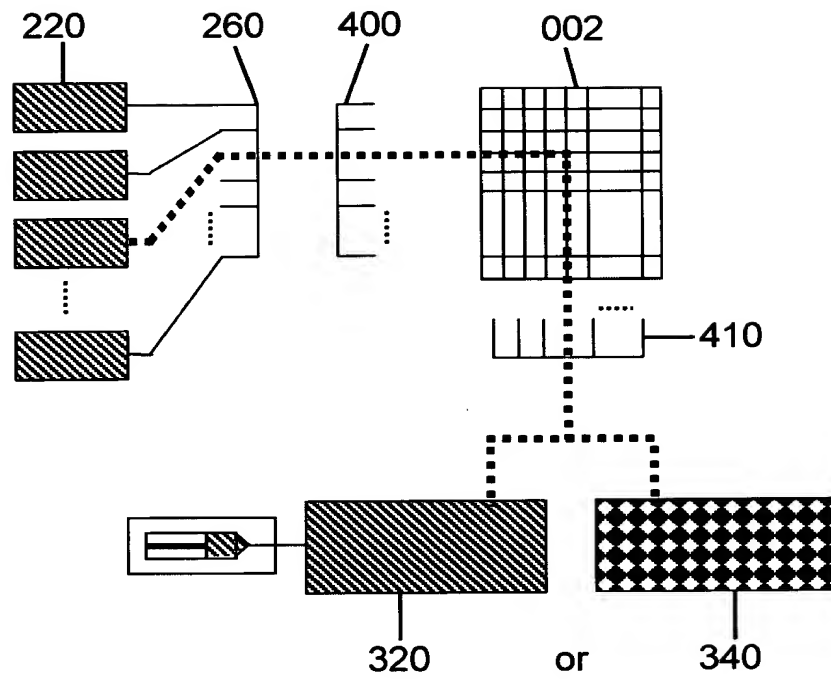


Figure 30



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Figure 31

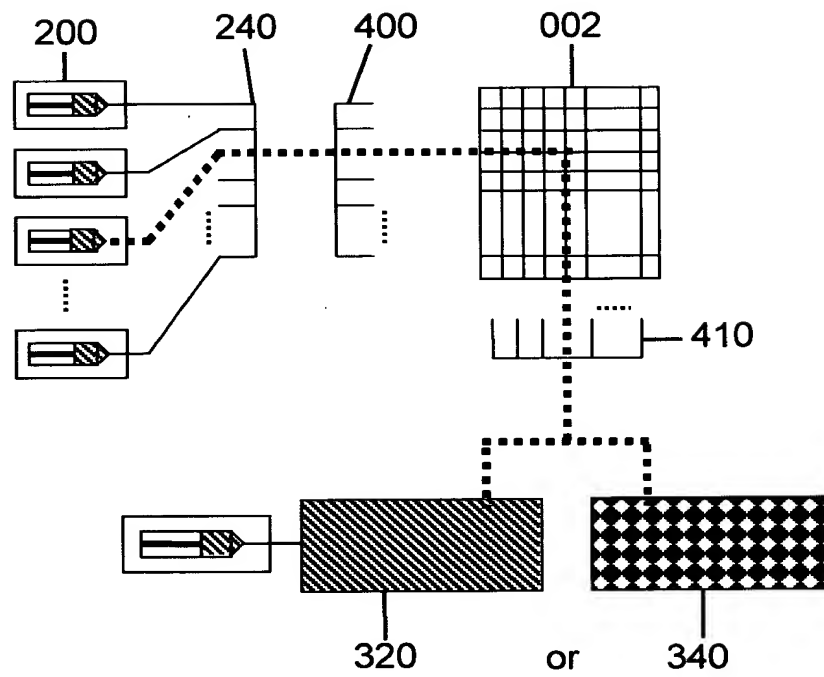


Figure 32

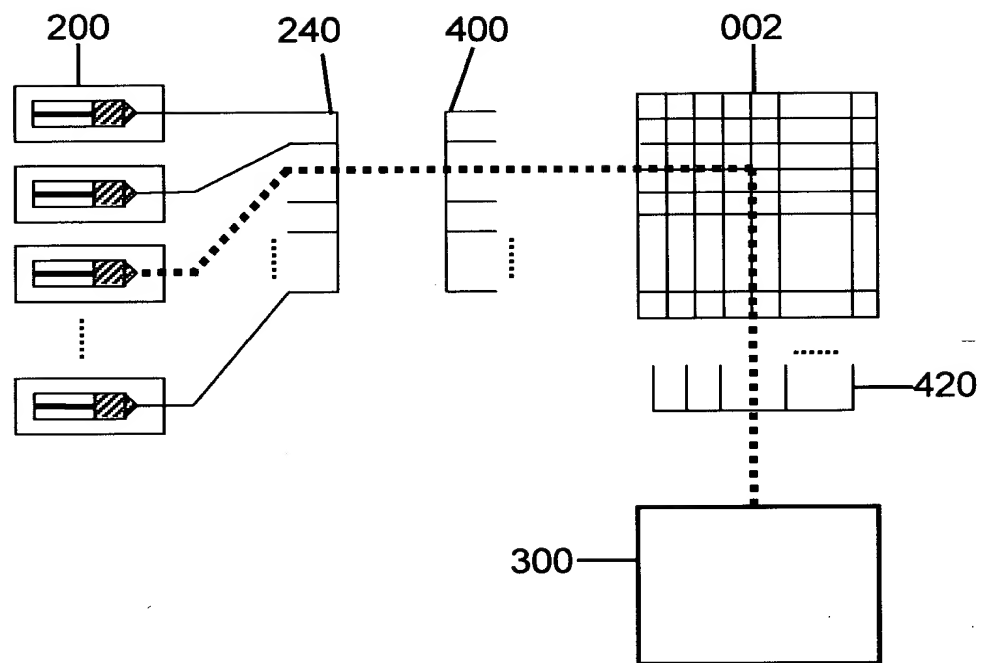


Figure 33

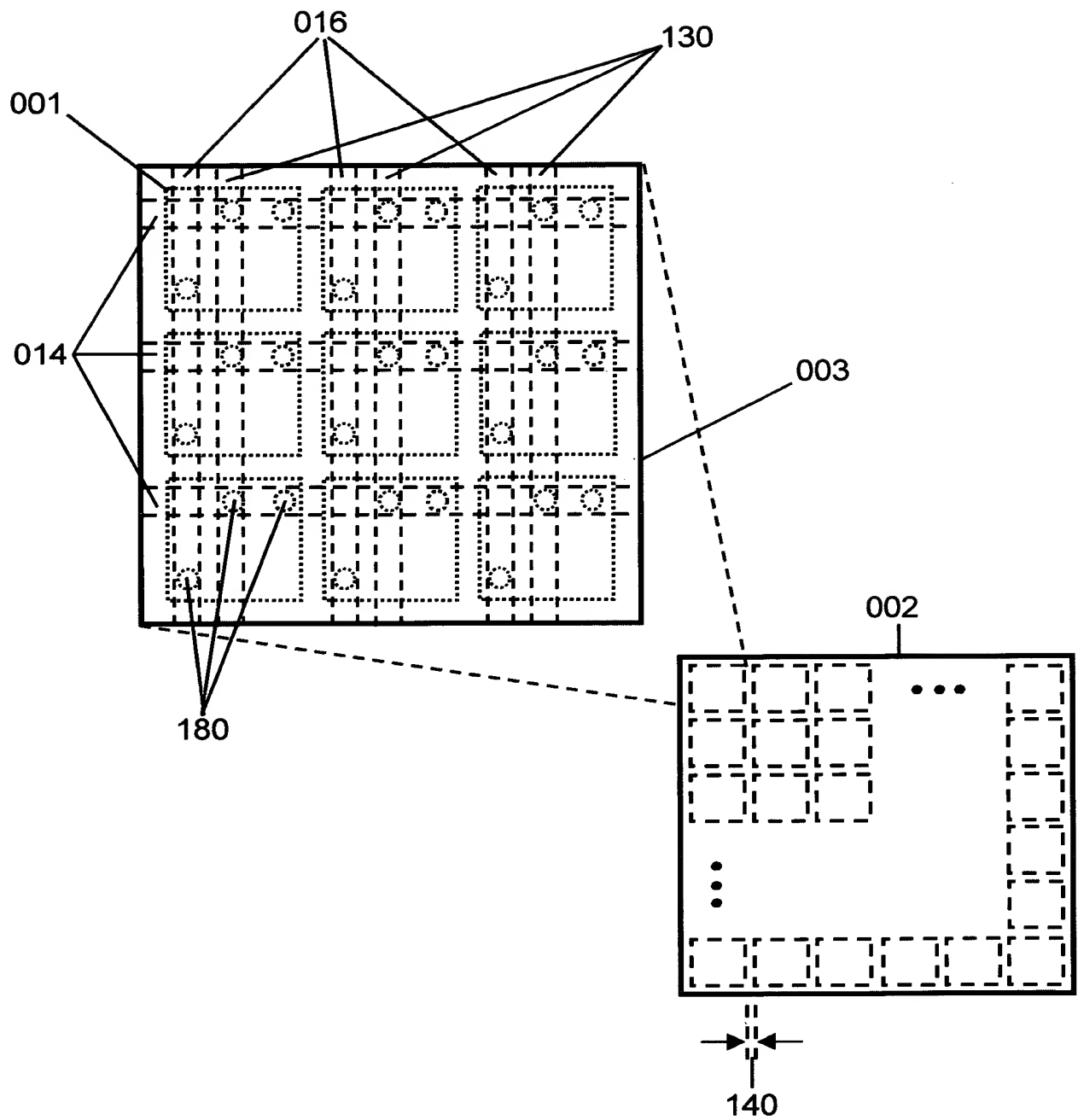


Figure 34

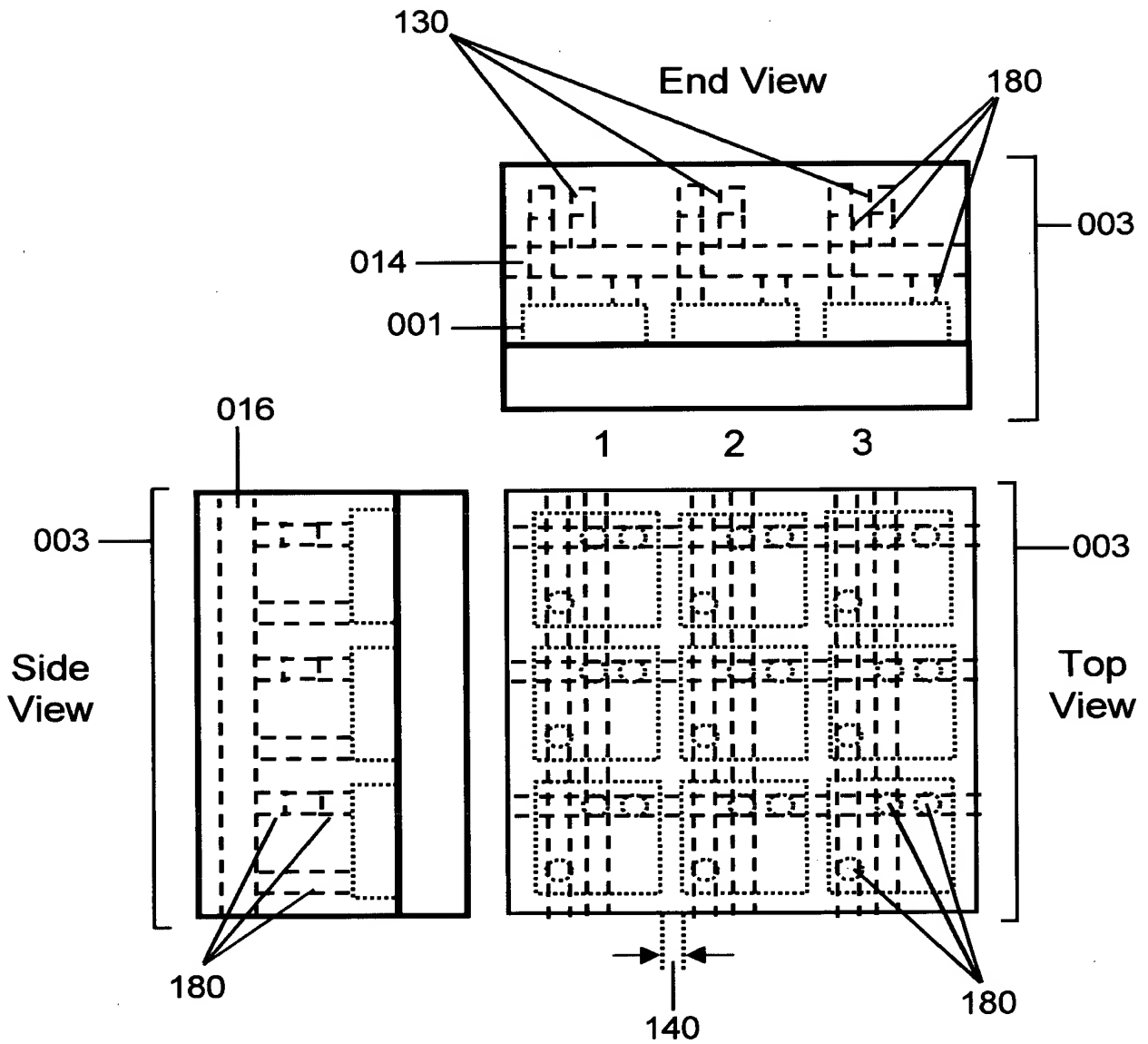


Figure 35

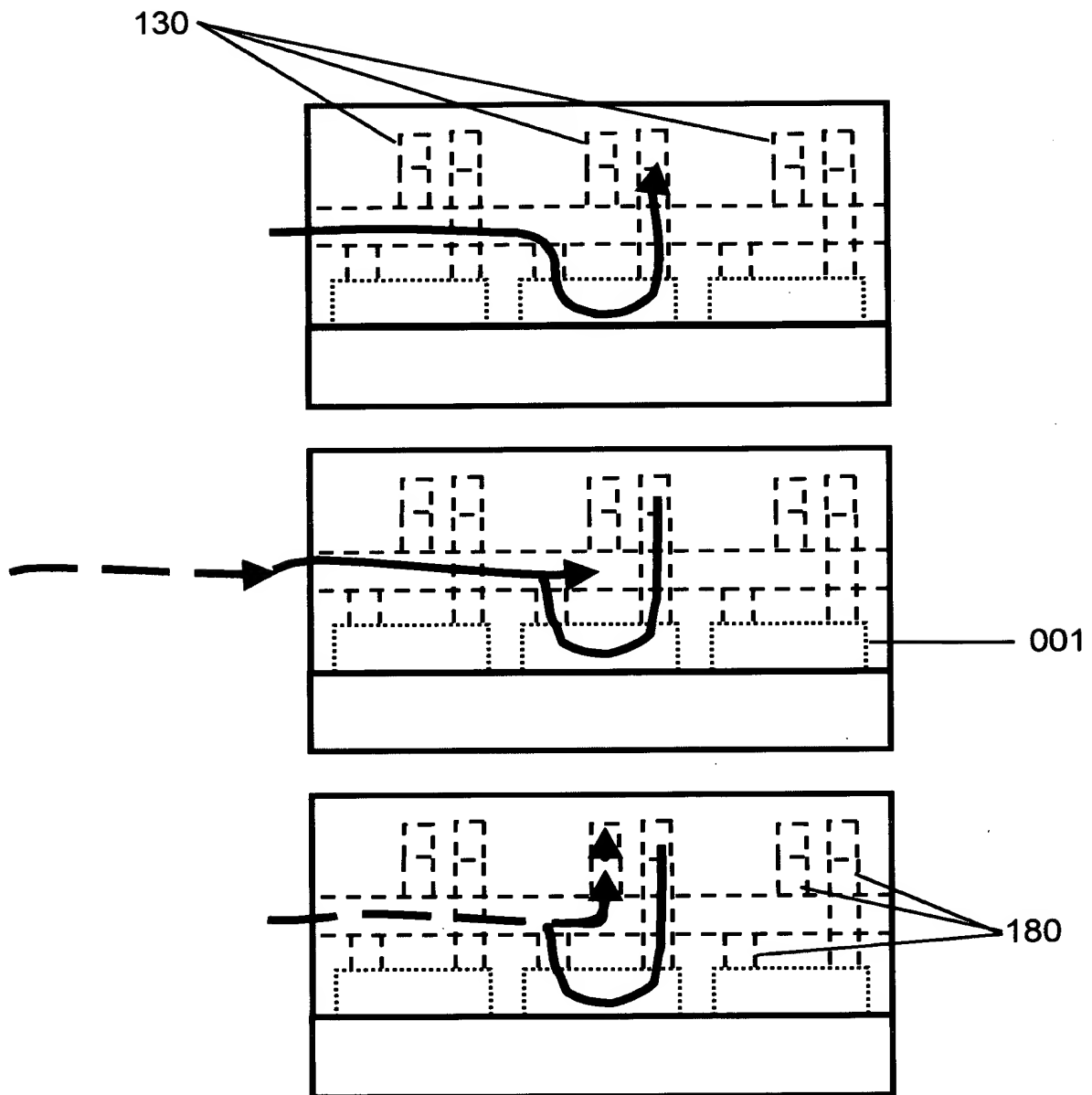


Figure 36

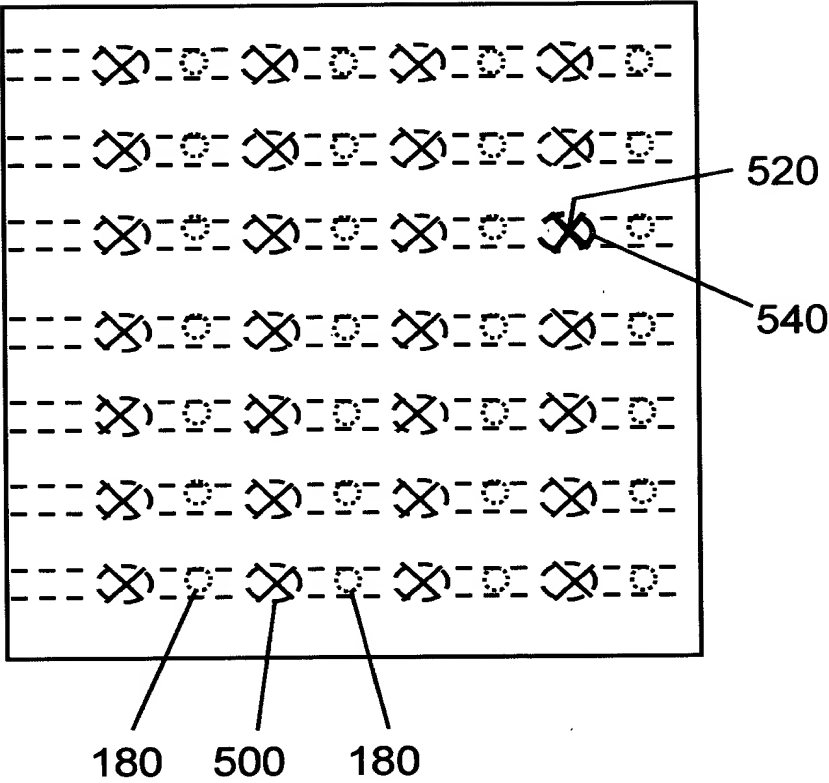


Figure 37

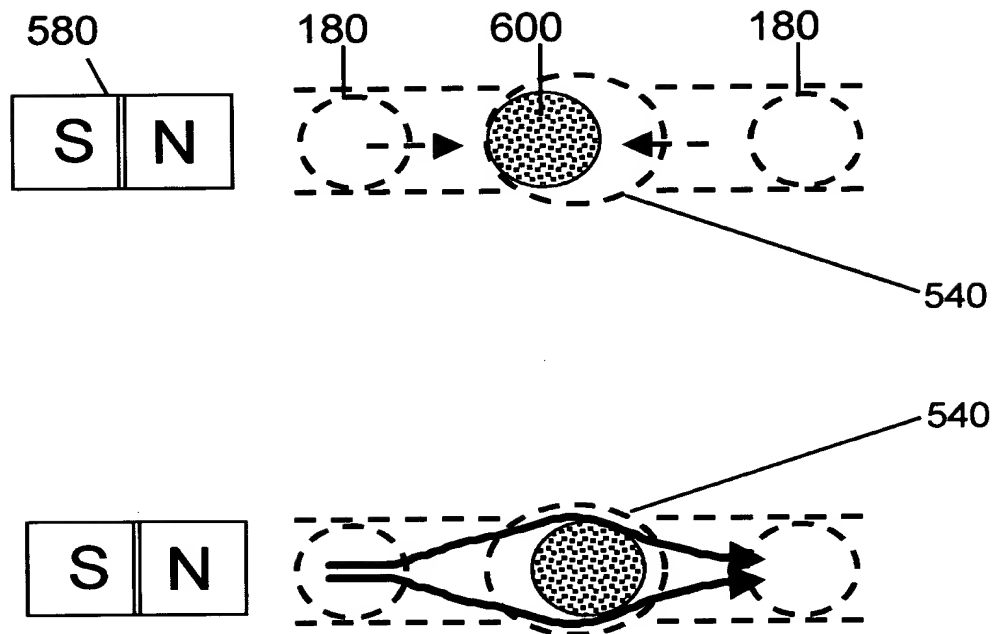


Figure 38

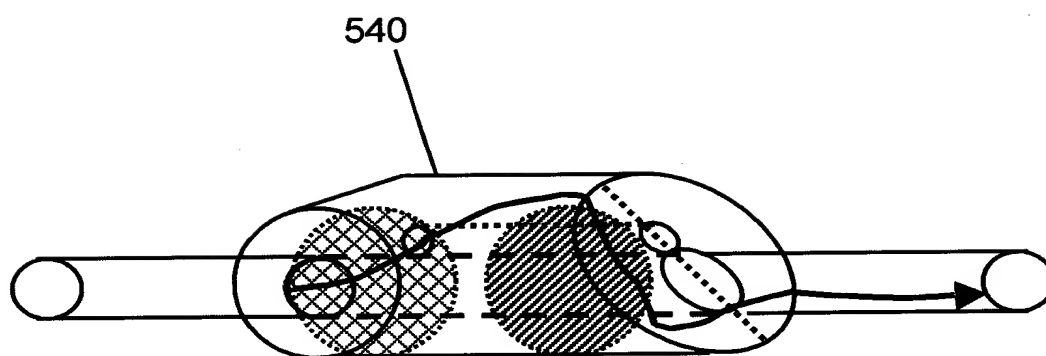


Figure 39

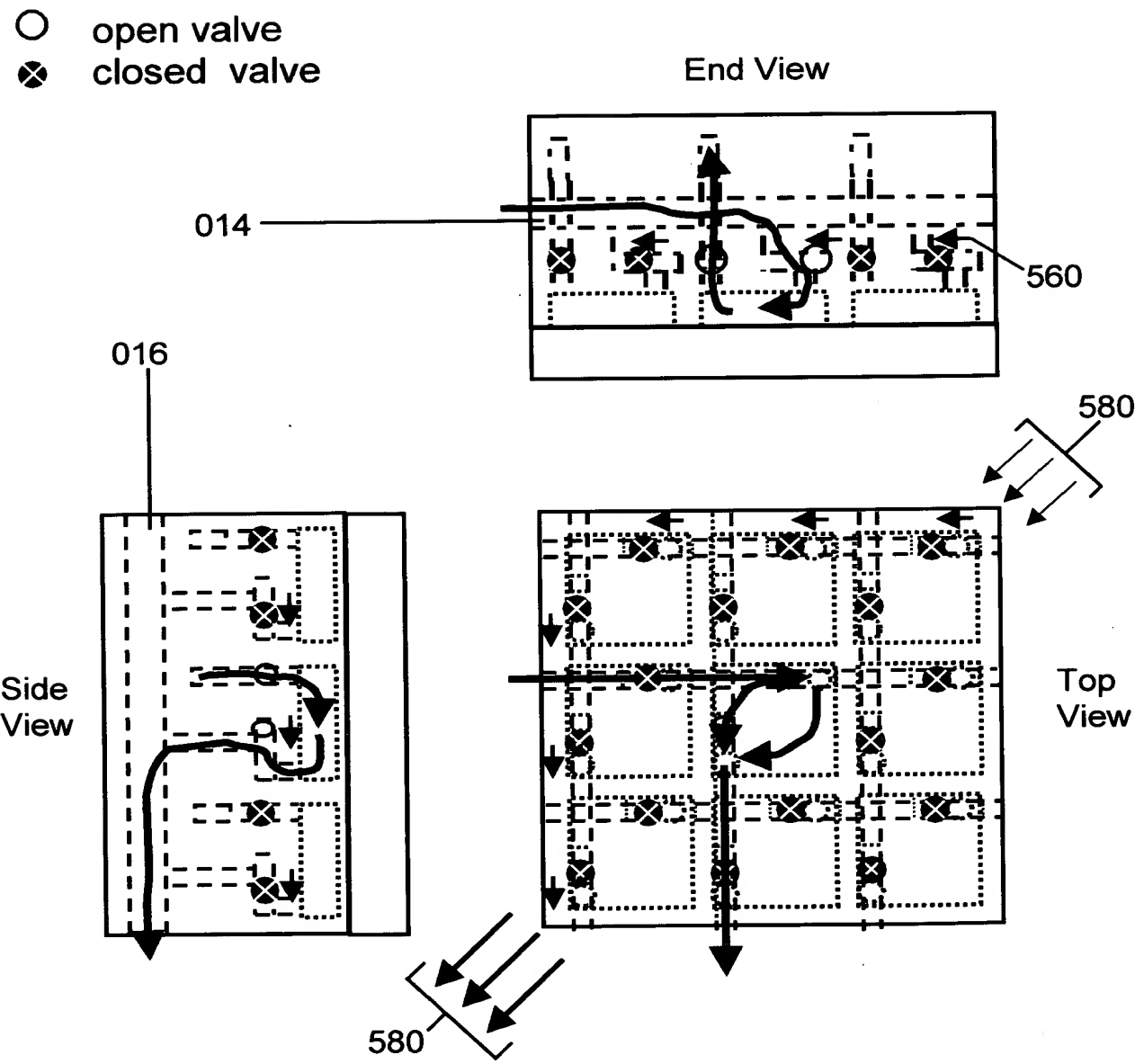


Figure 40

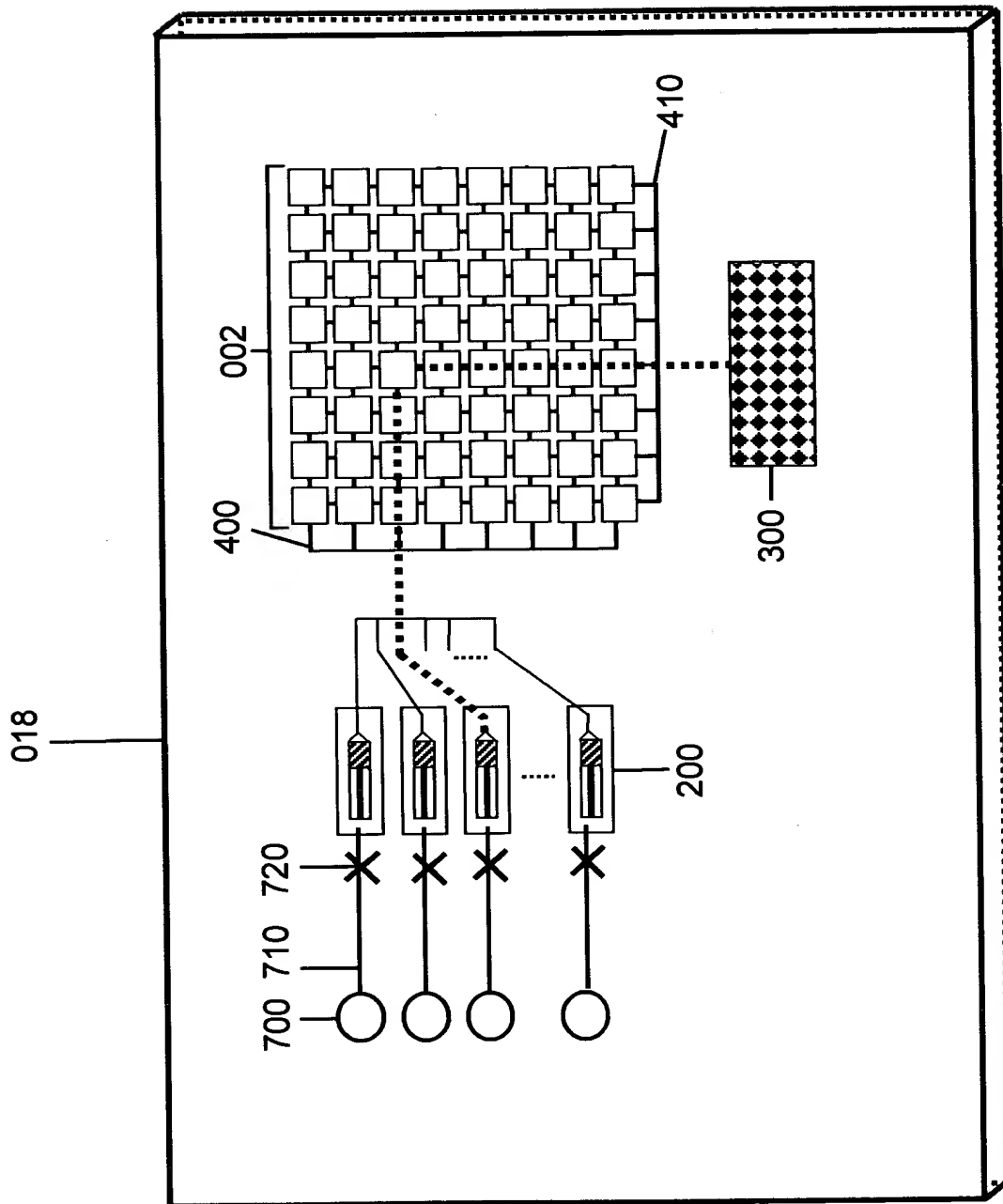


Figure 41

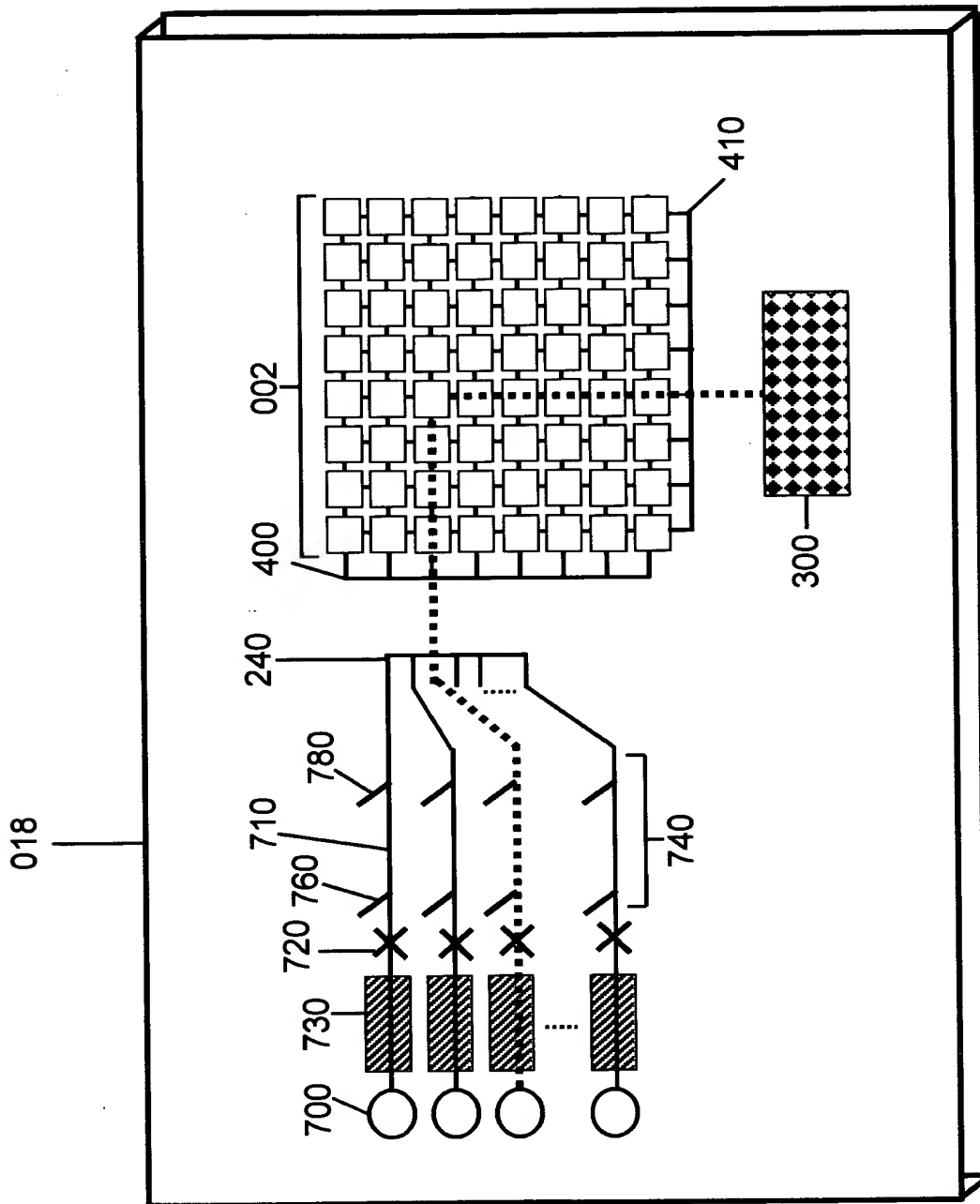
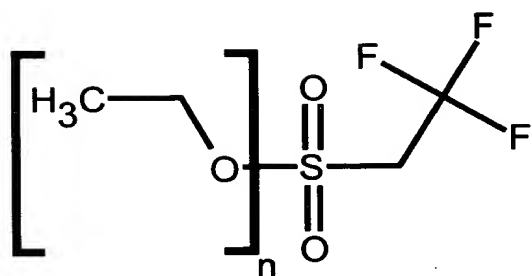
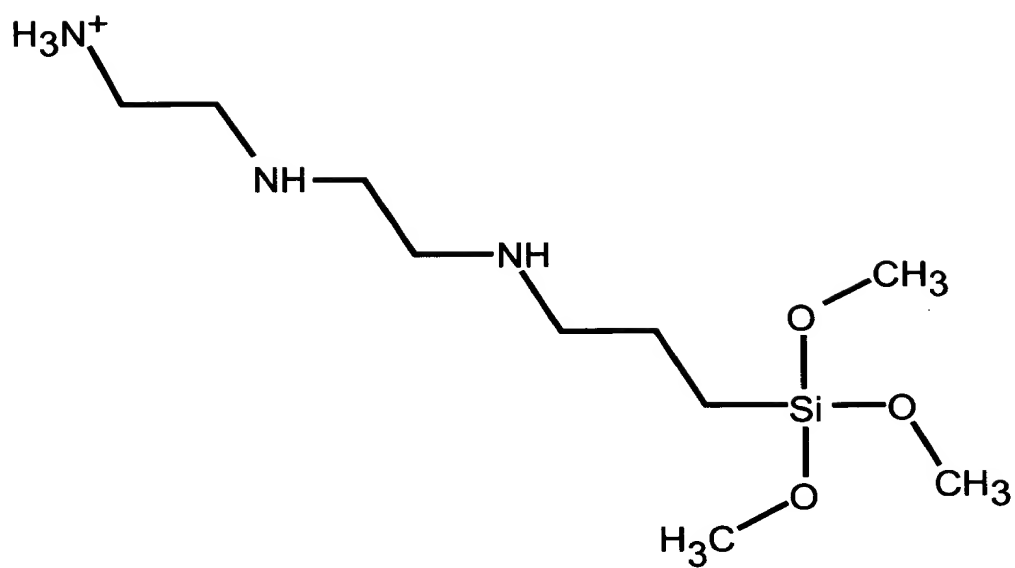


Figure 42



A



B

Figure 43

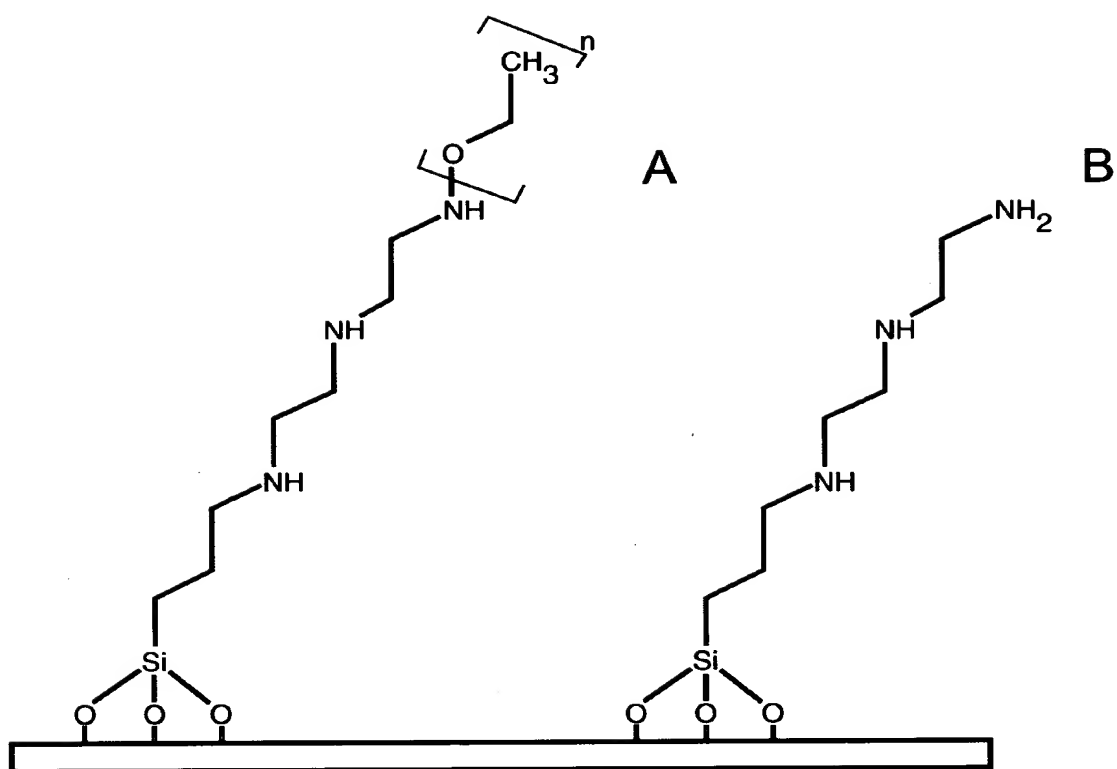
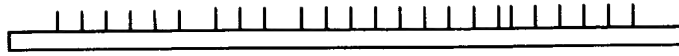
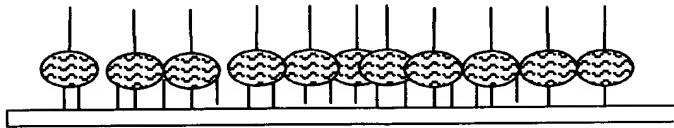


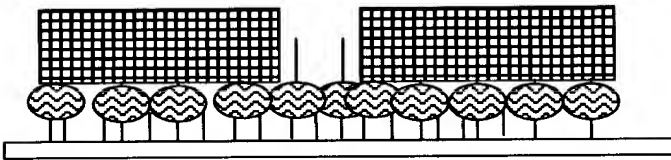
Figure 44



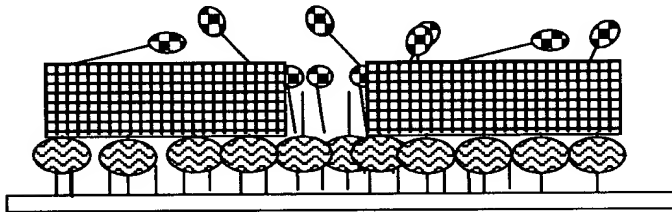
Oxidized plastic or clean glass has hydroxyl groups on the surface



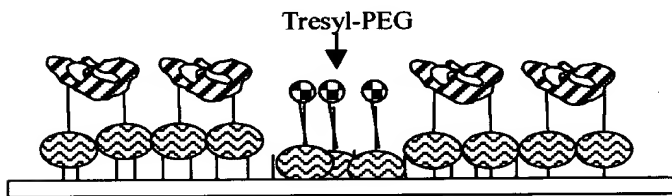
React substrate with an aminosilane



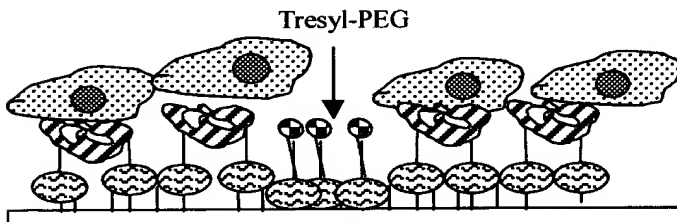
Apply stencil



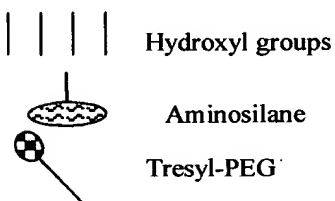
Vapor or solution deposit tresyl-PEG



Remove mechanical mask and apply cell adhesive molecules



Apply cells, they will adhere to previously masked areas



Cell adhesive molecules



Cells

Figure 45

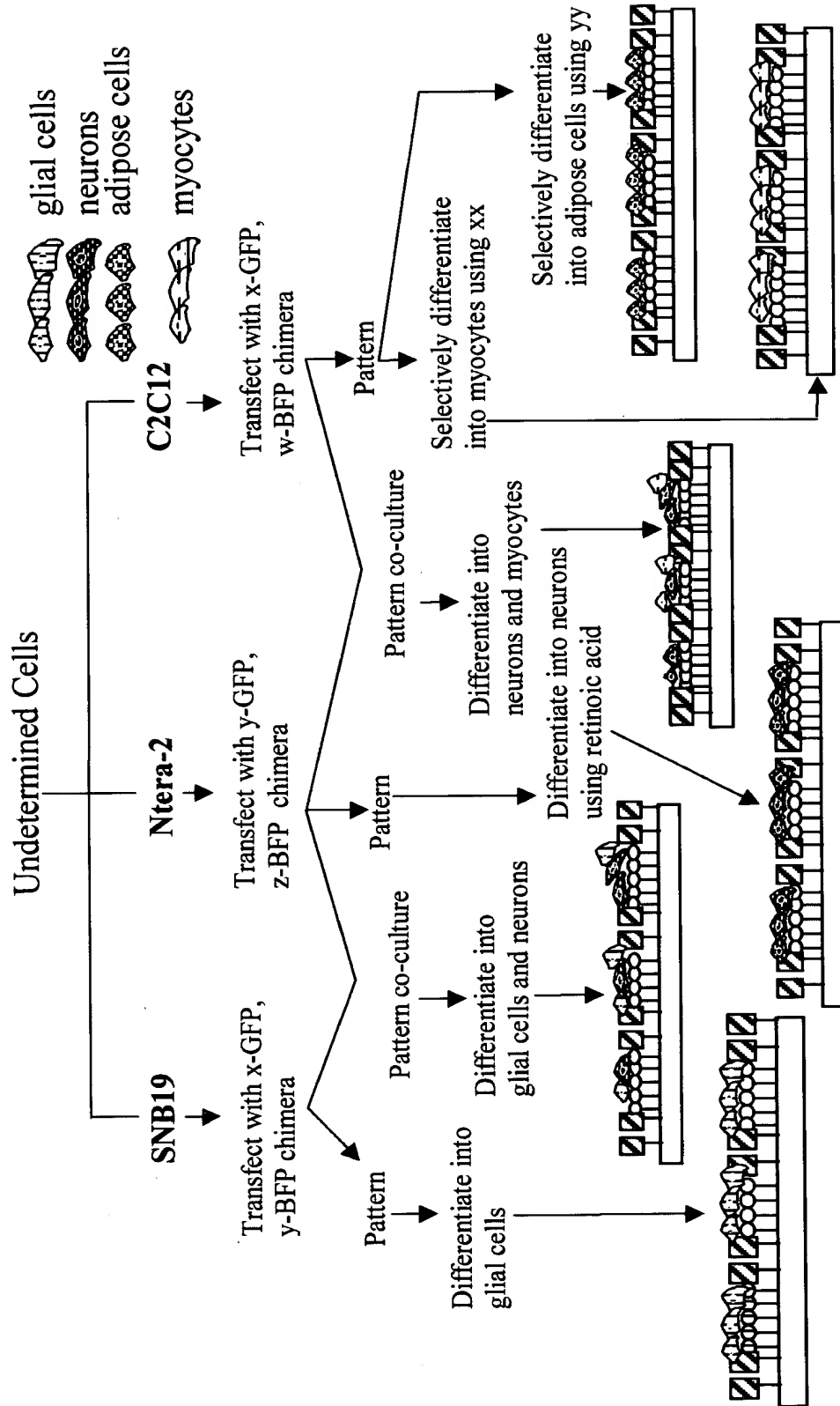


Figure 46

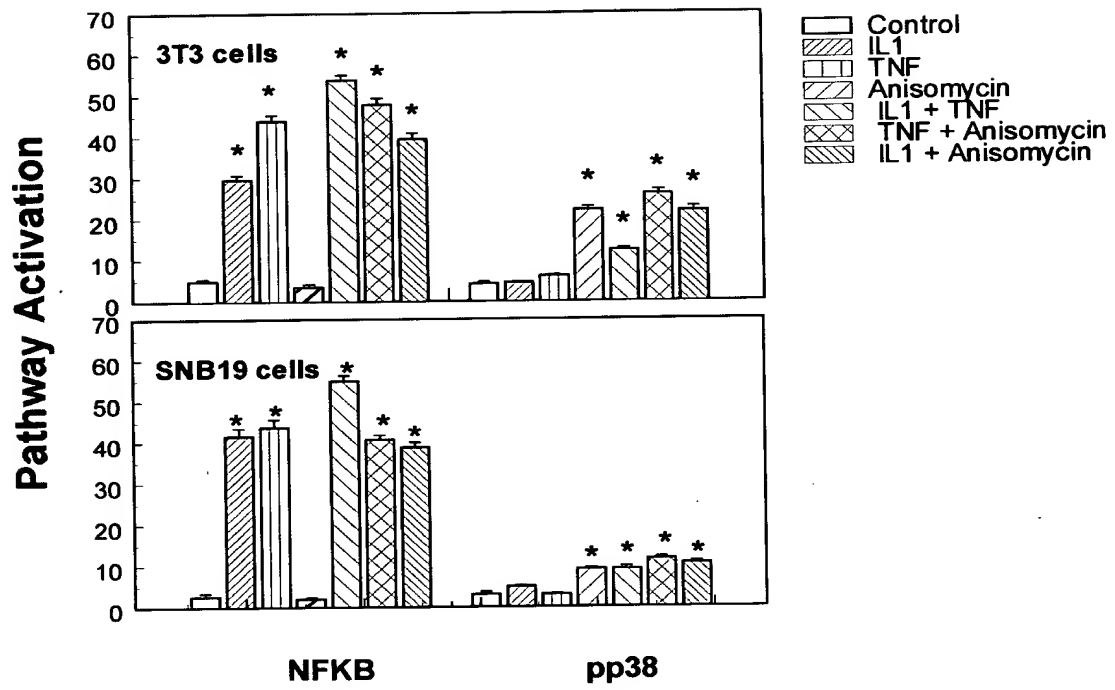


Figure 47

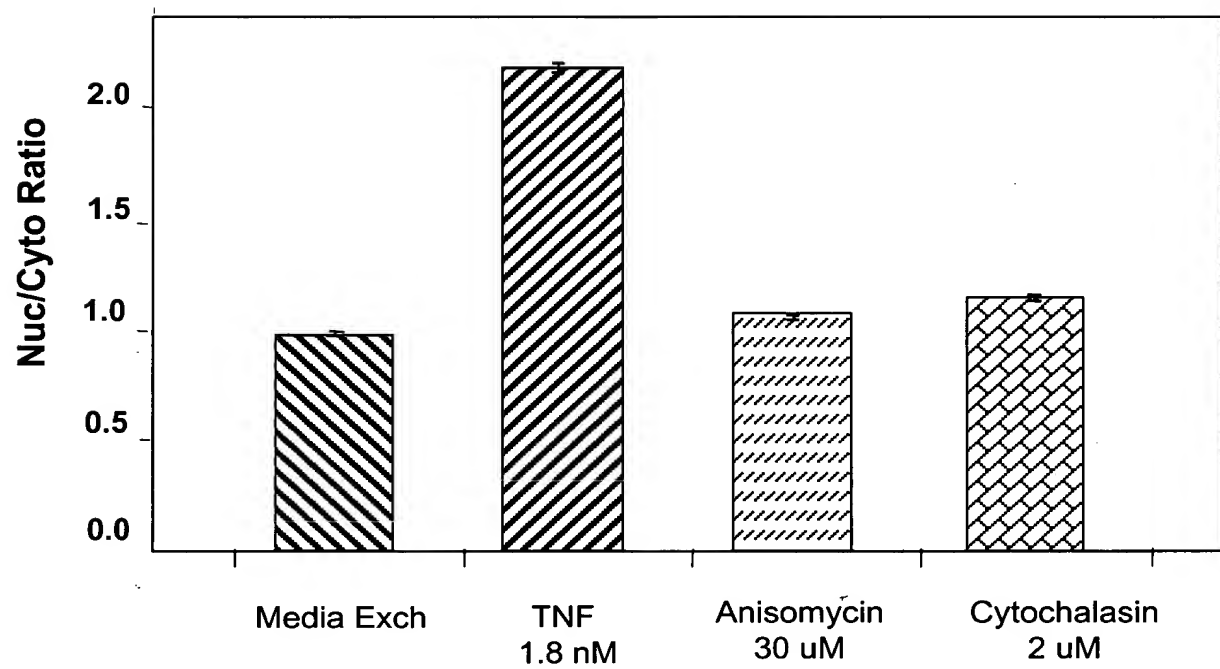


Figure 48

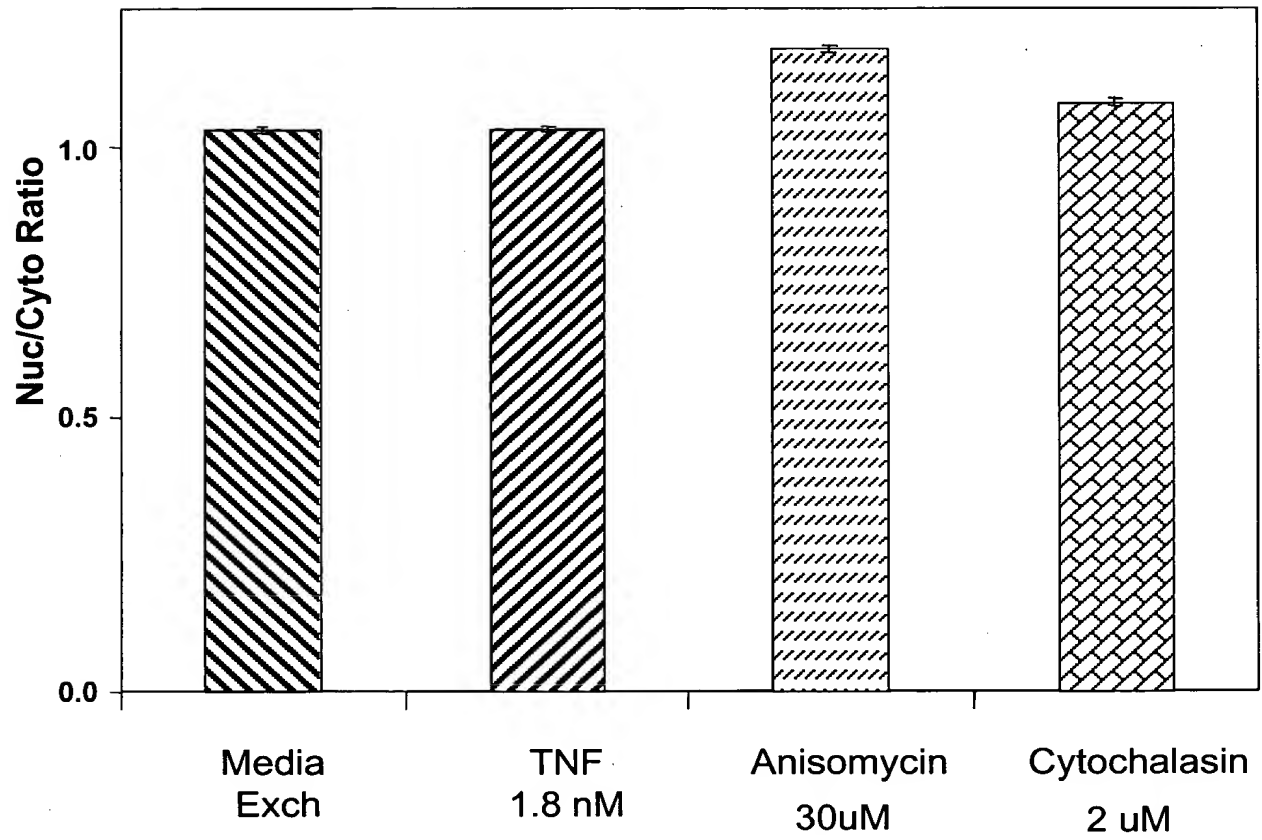


Figure 49

